

CITY OF WICKLIFFE

PARKWOOD DRIVE & KERRY

LANE WATERLINE AND

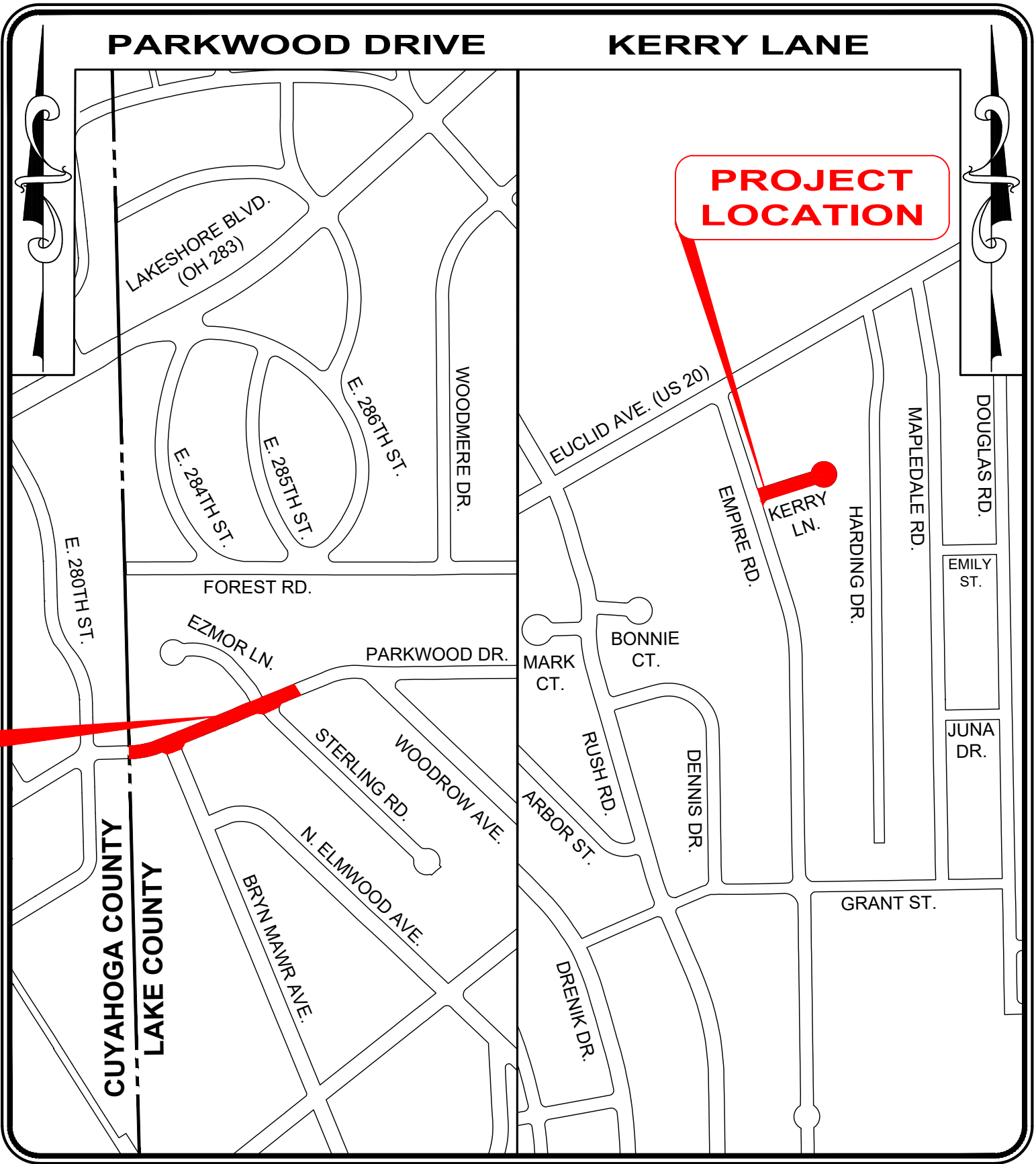
PAVEMENT IMPROVEMENTS

LAKE COUNTY, OHIO

AUGUST, 2025



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LOCATION MAP  
1" = 500'

CITY OFFICIALS:

JOSEPH SAKACS . . . . .MAYOR

COUNCIL-AT-LARGE

EDWARD LEVON PRESIDENT  
MARIA SALOTTO  
MATTHEW C. JAWORSKI

WARD COUNCIL

JAMES BALA, WARD I  
RANDY GERHARDSTEIN, WARD II  
THOMAS THIELMAN, WARD III  
SHERRY KOSKI, WARD IV

CITY ADMINISTRATORS:

DAVE KROFCHECK, . . . . . SERVICE DIRECTOR  
JEREMY IOSUE, . . . . .LAW DIRECTOR  
MICHAEL MATAS . . . . . FINANCE DIRECTOR  
DINO CAPRA . . . . . BUILDING COMMISSIONER  
TIMOTHY STOPP . . . . .RECREATION DIRECTOR  
JONATHON BUSH, . . . . . POLICE CHIEF  
CHRISTOPHER GROSSMAN, . . . . . FIRE CHIEF  
PETER FORMICA, . . . . .CITY ENGINEER

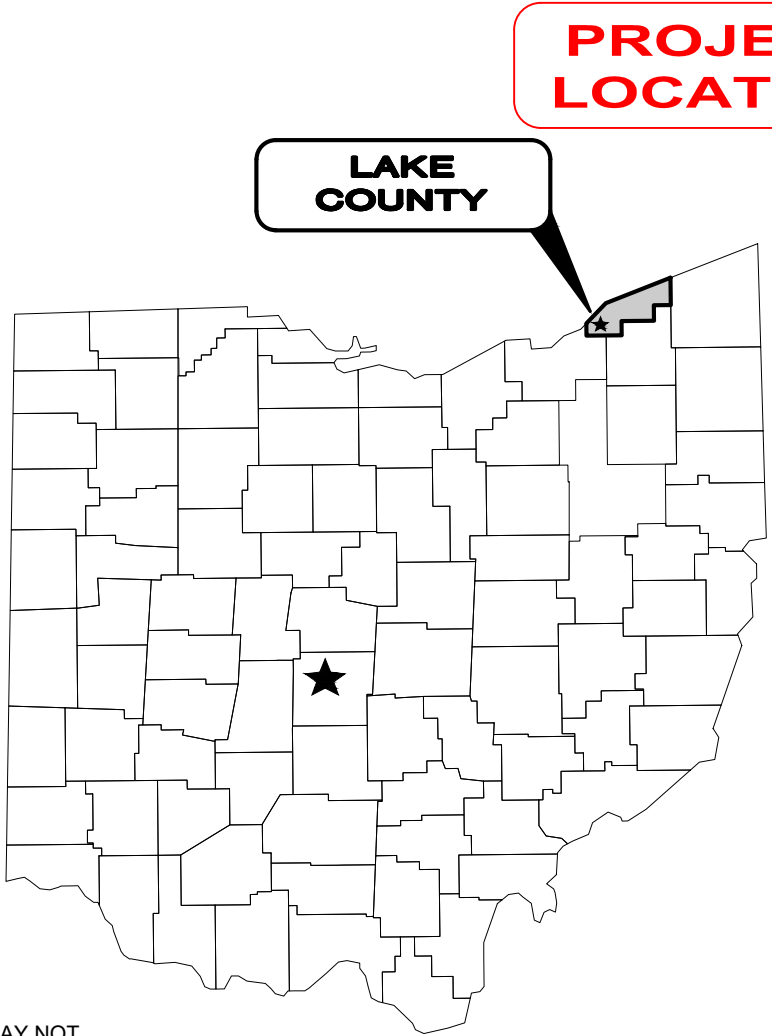
UNDERGROUND UTILITIES

CONTACT BOTH SERVICES  
CALL TWO WORKING DAYS  
BEFORE YOU DIG

CALL  
1-800-362-2764  
(TOLL FREE)

OHIO UTILITIES PROTECTION SERVICE  
NON-MEMBERS  
MUST BE CALLED DIRECTLY

OIL & GAS PRODUCERS PROTECTIVE  
SERVICE CALL: 1-800-925-0988



1. THE SURVEY SHOWN ON THESE PLANS WAS OBSERVED IN THE FIELD FOR CONSTRUCTION PURPOSES ONLY AND MAY NOT BE SUITABLE FOR PROPERTY LINE SURVEYS OR ANY OTHER PURPOSE.

2. UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, MAINTAINING AND REPLACING AS NECESSARY TO ENSURE CONTINUAL SERVICE TO BUILDINGS.

3. THE CONTRACTOR IS RESPONSIBLE TO CALL OHIO UTILITIES PROTECTION SERVICE @ 1-800-362-2764, THREE WORKING DAYS PRIOR TO CONSTRUCTION.



PETER J. FORMICA

P.E. No. 58646

8/25/2025  
DATE





- GENERAL NOTES
- MATERIALS OF WORK FOR "AS DIRECTED" ITEMS SHALL NOT BE ORDERED FOR THE DELIVERY TO THE PROJECT OR WORK PERFORMED UNTIL AUTHORIZED BY THE ENGINEER.
  - MANHOLES, CATCH BASINS, MONUMENT BOXES, WATER VALVE BOXES AND OTHER CASTINGS SHALL BE RAISED OR LOWERED FLUSH WITH THE FINISHED SURROUNDING SURFACE. ANY METER OR VALVE BOX ENCOUNTERED WITHIN THE WORK SITE SHALL BE EXPOSED AND ADJUSTED TO GRADE. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID.
  - BEFORE THE CITY WILL APPROVE AND ACCEPT THE WORK AND RELEASE THE GUARANTY RETAINER, THE CONTRACTOR SHALL FURNISH THE CITY A WRITTEN REPORT INDICATING THE RESOLUTION OF ANY AND ALL PROPERTY DAMAGE CLAIMS FILED WITH THE CONTRACTOR BY ANY PARTY DURING THE CONSTRUCTION PERIOD. THE INFORMATION TO BE SUPPLIED SHALL INCLUDE, BUT NOT BE LIMITED TO, NAME OF CLAIMANT, DATE FILED WITH CONTRACTOR, NAME OF INSURANCE COMPANY AND/OR ADJUSTOR HANDLING CLAIM, HOW CLAIM WAS RESOLVED AND, IF CLAIM WAS NOT RESOLVED FOR THE FULL AMOUNT, A STATEMENT INDICATING THE REASON FOR SUCH ACTION.
  - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO APPLY WHEN NEEDED OR ORDERED BY THE OWNER WATER OR CALCIUM CHLORIDE PER ODOT 616 FOR THE ALLEVIATION OR PREVENTION OF DUST NUISANCE ORIGINATING FROM HIS CONSTRUCTION ACTIVITIES. SUFFICIENT QUANTITIES OF CALCIUM CHLORIDE SHALL BE STORED ON THE JOB SITE AT ALL TIMES TO BE USED FOR DUST CONTROL. THE COST OF DUST CONTROL SHALL BE INCLUDED IN THE UNIT BID PRICES FOR ALL ITEMS OF THE PROPOSAL.
  - THE CONTRACTOR SHALL PROVIDE A PRE-CONSTRUCTION VIDEO TAPE SURVEY OF THE ENTIRE PROJECT AREA. ANY DAMAGE DEEMED TO HAVE BEEN CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AT HIS OWN EXPENSE. ALL COSTS ASSOCIATED FOR THIS WORK, INCLUDING THE VIDEO TAPE SURVEY, SHALL BE INCLUDED IN THE UNIT PRICES STIPULATED FOR THE VARIOUS ITEMS IN THE BID PROPOSAL.

- TRENCH EXCAVATION AND BACKFILL
- ALL EXCAVATION SHALL BE CONSIDERED UNCLASSIFIED. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED THE CONTRACTOR FOR ROCK OR SHALE EXCAVATION.
  - BACKFILL FOR ALL UNDERGROUND UTILITIES INSTALLED UNDER PAVEMENT, OR WITHIN A 1:1 ZONE OF INFLUENCE PARALLEL OR TRANSVERSE TO PAVEMENT, SHALL BE "COMPACTED GRANULAR BACKFILL" AS DESCRIBED IN SPECIFICATION SECTION 02235 AND IN ACCORDANCE WITH THE PLANS. BACKFILL IN OTHER AREAS SHALL BE AS DESCRIBED IN SPECIFICATION SECTION 312323.13 - "COMPACTED BACKFILL" OR SECTION 02235 - "COMPACTED GRANULAR BACKFILL". THE OWNER AND THE ENGINEER DO NOT GUARANTEE NOR SUGGEST THE IN-SITU MATERIAL TO BE SUITABLE OR IN ITS PRESENT STATE WILL CONSIST OF UNSUITABLE PROPER MOISTURE CONTENT TO ACHIEVE THE COMPACTION REQUIREMENTS. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE BACKFILL MATERIAL HE WILL USE. UPON REQUEST, THE OWNER WILL PROVIDE ACCESS TO THE SITE FOR THE CONTRACTOR TO CONDUCT SUCH INVESTIGATION AND TESTS DEEMED NECESSARY TO MAKE HIS DETERMINATION. NO EXTRA PAYMENT WILL BE MADE TO DISPOSE OF UNSUITABLE MATERIAL OR FURNISH AND PLACE SUITABLE MATERIAL MEETING THE REQUIREMENTS OF SECTION 312323.13 "COMPACTED BACKFILL" OR SECTION 02235 "COMPACTED GRANULAR BACKFILL".
  - SLAG PRODUCTS WILL NOT BE PERMITTED FOR BEDDING OR BACKFILL MATERIAL.
  - BACKFILL SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 9" IN DEPTH. BACKFILL MATERIAL SHALL BE PLACED WITH 2% OF THE OPTIMUM MOISTURE. THE ENGINEER MAY ORDER THE REMOVAL, REFILLING, RECOMPACTION AND RETESTING OF ALL BACKFILL NOT MEETING THE REQUIREMENTS OF THE CONTRACT.
  - BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED USING MACHINE MOUNTED COMPACTION EQUIPMENT IN LAYERS SUFFICIENT TO MEET THE COMPACTION REQUIREMENT ODOT 203.
  - NO BACKFILLING OF ANY TRENCHES OR EXCAVATIONS WILL BE PERMITTED WITHOUT TAMPING EQUIPMENT BEING USED. FLOODING, JETTING OR PUDDLING OF BACKFILL WILL NOT BE PERMITTED.
  - ALL UTILITY LINES CROSSING THE NEW WATER TRENCH, I.E. STORM SEWERS, STORM LATERALS, SANITARY SEWERS, SANITARY LATERALS, WATER MAINS, WATER SERVICE CONNECTIONS, GAS MAINS, GAS SERVICE CONNECTIONS, UNDERGROUND OBT CONDUITS, OR CABLE T.V. LINES SHALL BE PROTECTED AND SUPPORTED WITH HARDWOOD PLANKS OR REMOVED AND REPLACED, RECONNECTED AND SUPPORTED ACROSS THE ENTIRE WIDTH OF THE TRENCH. NO ADDITIONAL COMPENSATION WILL BE PAID FOR THE ABOVE WORK, EVEN IF NOT SHOWN ON THE PLANS.
  - ALL EXISTING SEWER CASTINGS REMOVED ON THIS PROJECT SHALL REMAIN THE PROPERTY OF THE CITY OF WICKLIFFE AND SHALL BE DELIVERED BY THE CONTRACTOR TO A SITE DESIGNATED BY THE CITY.
  - ALL EXISTING TEST TEE MARKINGS ENCOUNTERED ON THE SIDEWALK AND/OR CURB DURING CONSTRUCTION SHALL BE REFERENCED AND RESTORED, MARKED WITH A SAW CUT SYMBOL ON THE SIDEWALK. ( + ) FOR STORM TEE AND ( Δ ) FOR SANITARY TEE.

- PROJECT PHASING
- IT IS THE DESIRE OF THE CITY OF WICKLIFFE TO HAVE THE CONTRACT WORK PROCEED IN AN ORDERLY AND NEAT MATTER IN ORDER TO KEEP THE DISRUPTION TO THE RESIDENTS TO A MINIMUM. THUSLY THE CONTRACTOR IS TO PREPARE AND IMPLEMENT A WORK PHASING PLAN, APPROVED BY THE DIRECTOR OF PUBLIC SERVICE AND THE ENGINEER, INCLUSIVE OF THE FOLLOWING REQUIREMENTS:
- ALL WORK SHALL BE 1/2 WIDTH.
  - NO WORK SHALL BE DONE ON THE OPPOSITE SIDE OF THE STREET UNTIL ALL NEW PAVEMENT (CONCRETE OR ASPHALT BASE AND INTERMEDIATE COURSES), DRIVE APRONS, SIDEWALKS AND ROUGH GRADE LANDSCAPING ARE IN PLACE ON THE SIDE BEING CONSTRUCTED.
  - THE CITY MAY ACCEPT A PHASING PLAN CONSISTING OF PERFORMING 1/2 WIDTH IMPROVEMENTS ALONG THE SECTIONS/PHASES OF THE PROJECT LENGTH. THE CONTRACTORS PLAN SHALL SUBSTANTIALLY COMPLETE EACH PHASE ON BOTH SIDES OF THE RIGHT-OF-WAY BEFORE MOVING ON THE THE NEXT PHASE.
  - DRIVE APRON ACCESS IS TO BE MAINTAINED AT ALL TIMES EXCEPTING DURING CONCRETE PLACEMENT AND CURING.

- ROADWAY EXCAVATION AND PAVEMENT
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER FORTY-EIGHT (48) HOURS IN ADVANCE OF BEGINNING WORK WHICH REQUIRES PROOF ROLL TESTING AND/OR PRE-POUR INSPECTION PRIOR TO PLACEMENT OF PAVEMENT. WORK WILL NOT BEGIN UNTIL INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE ENGINEER.
  - PART WIDTH CONSTRUCTION AS DESCRIBED IN GENERAL NOTE 1.02 SHALL BE USED FOR PAVING OPERATIONS. PAVING OPERATIONS SHALL NOT BEGIN ON THE OPPOSITE LANE(S) UNTIL ROADWAY AND DRIVE APRONS ARE INSTALLED AND OPEN TO TRAFFIC ON THE STARTING SIDE.
  - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE BARRICADE DEVICES TO PREVENT VEHICULAR TRAFFIC ON NEW CONCRETE PAVEMENT AND APRONS UNTIL THE END OF THE CURE PERIOD OR UNTIL THE SPECIMEN TEST BEAMS HAVE ATTAINED A MODULUS OF RUPTURE OF 600 PSI FOR QC MS CONCRETE.
  - THE EXCAVATION, EMBANKMENT AND COMPACTION OF THE NEW ROADWAY SUBGRADES IS PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS 203. A MINIMUM OF TWO (2) PROOF ROLLINGS WILL BE REQUIRED AS DIRECTED BY THE ENGINEER BEFORE PAVING. THE FIRST PROOF ROLLING SHALL BE PERFORMED AFTER THE INSTALLATION OF ALL UNDERGROUND IMPROVEMENTS AND AFTER FINE GRADING JUST PRIOR TO PAVING. THE PROOF ROLLINGS SHALL BE COMPLETED AS FOLLOWS: EXCAVATION OR EMBANKMENT TO FINISHED SUBGRADE. EMBANKMENTS ARE COMPACTED AND TESTED FOR COMPACTION IN 6" LIFTS PER ODOT 203. THE SUBGRADE IS COMPACTED AND TESTED. THE

- SUBGRADE FOR THE NEW ROAD IS THEN PROOF ROLLED. AREAS EXHIBITING UNACCEPTABLE MOVEMENT UNDER PROOF ROLLING ARE UNDERCUT TO A DEPTH DIRECTED BY THE ENGINEER AND BACKFILLED WITH MATERIALS SPECIFIED IN THE PLANS. THE SUBGRADE IS RE-PROOF ROLLED TO VERIFY THE UTILITY OF THE UNDERCUT. UPON PASSING THE PROOF ROLL THE AREA IS APPROVED FOR THE INSTALLATION OF THE BASE MATERIAL. THE AGGREGATE BASE MATERIAL IS PLACED PER ODOT SPECIFICATIONS, COMPACTED, TESTED AND PROOF ROLLED. UPON PASSING THE PROOF ROLL THE SPECIFIED TOP COURSES OF RIGID PAVEMENT MAY BE INSTALLED. MOISTURE CONTENT OF THE SUBGRADE AT THE TIME OF PROOF ROLLING SHALL CONFORM TO SECTION 203.11 OF THE ODOT SPECIFICATIONS. THE MINIMUM EQUIPMENT SHALL CONSIST OF A SINGLE UNIT, TANDEM AXLE DUMP TRUCK CAPABLE OF BEING LOADED TO 30,000 POUND AXLE LOAD, 80,000 POUND GVW. TIRE PRESSURE SHALL BE MAINTAINED AT 90 PSI OR AS SPECIFIED UNDER SECTION 203.14 OF ODOT SPECIFICATIONS. ANY AREA PERMITTING TIRES TO LEAVE A GROOVE OF ONE (1) INCH OR MORE SHALL BE UNACCEPTABLE FOR PAVING. ANY AREA PERMITTING THE TEST VEHICLE TIRES TO LEAVE A GROOVE OF ZERO (0) TO ONE-HALF (1/2) INCH DEEP SHALL BE ACCEPTABLE. ANY AREA PERMITTING THE TEST VEHICLE TIRES TO LEAVE A GROOVE OF ONE-HALF (1/2) INCH TO ONE (1) INCH DEEP SHALL BE AT THE ENGINEER'S DISCRETION.
- JOINT AND CRACK SEALER FOR PAVEMENT SHALL MEET THE REQUIREMENTS OF ODOT ITEM 705.04 AND ASTM D 3405. A DOUBLE BOILER SHOULD BE USED FOR HEATING THE MATERIAL.
  - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SUFFICIENT SECURITY MEASURES AND/OR PERSONNEL TO PROTECT ALL NEW CONCRETE WORK FROM VANDALISM AT NO ADDITIONAL COST TO THE CITY. ANY VANDALIZED CONCRETE SHALL BE REPLACED IN FULL AT THE CONTRACTOR'S EXPENSE.

- EXISTING UTILITIES
- THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILIGENT FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE CITY OF WICKLIFFE AND THE LAKE COUNTY DEPARTMENT OF UTILITIES DOES NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS.
  - BEFORE ANY WORK IS STARTED THAT WILL INTERFERE WITH THE EXISTING UTILITIES, THE CONTRACTOR SHALL CALL THE "OHIO UTILITIES PROTECTION SERVICE", AT 1-800-362-2764, FORTY-EIGHT (48) HOURS IN ADVANCE OF THE WORK. THE FOLLOWING REFERENCE NUMBERS HAVE BEEN ASSIGNED TO THIS PROJECT BY THE OHIO UTILITIES PROTECTION SERVICE. NON-MEMBER UTILITIES MUST BE CONTACTED DIRECTLY. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS, AT NO ADDITIONAL EXPENSE TO THE CITY OF WICKLIFFE, TO AVOID DAMAGE TO EXISTING UNDERGROUND AND OVERHEAD UTILITY LINES DURING THE ENTIRE PROJECT. IN THE EVENT OF DAMAGE TO EXISTING PUBLIC AND/OR PRIVATE UTILITIES, THE AGENCY CONCERNED SHALL BE NOTIFIED IMMEDIATELY AND ALL REPAIR WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE RESPECTIVE AGENCY AT NO ADDITIONAL EXPENSE TO THE CITY OF WICKLIFFE, INCLUDING ANY INSPECTION FEES OR MAINTENANCE CREWS.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF THE EXISTING UTILITY OWNERS LISTED BELOW AND THE UTILITY PROTECTION SERVICE IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE AND OUTLINED IN PROJECT SPECIFICATIONS. THE UTILITY OWNERSHIPS ARE AS FOLLOWS:

OHIO UTILITY PROTECTION SERVICE 106 WEST RYEN, ROOM 427 YOUNGSTOWN, OHIO 44051 PHONE: (800) 362-2746	THE ILLUMINATING COMPANY P.O. BOX 5000 CLEVELAND, OHIO 44101 PHONE: (216) 622-9800	DOMINION EAST OHIO 320 SPRINGSIDE DRIVE, STE 320 AKRON, OHIO 44333 PHONE: (330) 664-2409
CITY OF WICKLIFFE 28730 RIDGE ROAD WICKLIFFE, OHIO 44092 PHONE: (440) 943-7100	LAKE COUNTY UTILITIES DEPT. 105 MAIN STREET PAINESVILLE, OHIO 44077 PHONE: (440) 350-2645	CHARTER/SPECTRUM 7820 DIVISION DRIVE MENTOR, OHIO 44060 PHONE: (440) 974-3401
		AT&T 13630 LORAIN ROAD CLEVELAND, OHIO 44111 PHONE: (216) 476-6084

- WHERE EXISTING POWER OR TELEPHONE POLES ARE IN CLOSE PROXIMITY TO WORK, THE CONTRACTOR SHALL COORDINATE HIS WORK EFFORTS WITH THOSE OF THE UTILITY COMPANIES SUCH THAT THEIR EXISTING FACILITIES CAN BE MAINTAINED AND PROTECTED DURING THE TIME WORK IS GOING ON ADJACENT TO THE POLE. THE COST AND COORDINATION FOR ANY REQUIRED PROTECTION OR RELOCATION OF EXISTING POWER OR TELEPHONE POLES SHALL NOT BE THE RESPONSIBILITY OF THE CITY OF WICKLIFFE. DELAYS TO THE CONTRACTOR AS A RESULT OF TIMING OF POLE RELOCATION OR PROTECTION SHALL NOT BE CONSIDERED COMPENSABLE DELAYS, AS IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS WORK IN CONFORMANCE TO THE UTILITY COMPANY'S SCHEDULE.
- THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITIES AFFECTED BY THE PROPOSED CONSTRUCTION.

- SERVICE CONNECTIONS
- ALL ACTIVE DRAINAGE PIPES ENCOUNTERED SHALL BE RECONNECTED TO EXISTING FACILITIES OR CONNECTED TO THE NEW FACILITIES.
  - ALL EXISTING UTILITY SERVICE CONNECTIONS (SANITARY, STORM, WATER, GAS, ELECTRIC, TELEPHONE, ETC.) WHICH ARE DAMAGED DURING THE INSTALLATION OF PIPE SHALL BE REPAIRED WITH LIKE MATERIALS OR REPLACED, AS REQUIRED. THE COST OF UTILITY SERVICE CONNECTION REPAIR/REPLACEMENT SHALL BE INCLUDED IN THE UNIT PRICES FOR ALL ITEMS IN THE PROPOSAL.
  - ALL UTILITY LINES CROSSING THE NEW TRENCH SHALL BE PROTECTED AND SUPPORTED WITH HARDWOOD PLANKS; OR REMOVED, REPLACED, RECONNECTED AND SUPPORTED ACROSS THE ENTIRE WIDTH OF THE TRENCH. IF ANY OF THESE LINES ARE DAMAGED DURING CONSTRUCTION, THEY SHALL BE REPLACED IN-KIND.
  - THE CONTRACTOR SHALL BE REQUIRED TO BYPASS AND MAINTAIN THE FLOW TO/FROM ALL HOUSE UTILITY CONNECTIONS DURING CONSTRUCTION.
  - THE CONTRACTOR SHALL EXPECT ONE UNDERGROUND SEWER, GAS AND WATER CONNECTION FOR EACH LOT (INCLUDING VACANT LOTS) ON BOTH SIDES OF THE STREET FOR THE ENTIRE PROJECT LENGTH.
  - THE COST OF UTILITY RELOCATION, REPLACEMENT, AND/OR SUPPORT SHALL BE INCLUDED IN THE COST PER LINEAL FOOT OF PROPOSED WATER MAIN.

- GRASS RESTORATION
- PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL INVENTORY TREELAWNS FOR EXISTING ORNAMENTAL LANDSCAPE FEATURES INCLUDING LAWN SPRINKLER SYSTEMS AND IRON PINS. ANY LANDSCAPE FEATURE DISTURBED OR DAMAGED BY THE CONTRACTOR'S ACTION SHALL BE RESTORED TO ITS ORIGINAL CONDITION. COST OF INVENTORY AND RESTORATION SHALL BE INCLUDED IN THE UNIT BID PRICE FOR LAWN RESTORATION.
  - RESTORATION OF TREELAWNS AND GRASS AREAS IN EASEMENTS SHALL BE PERFORMED BY A LANDSCAPE CONTRACTOR TO BE APPROVED BY THE CITY ENGINEER AND SERVICE DIRECTOR. THE LANDSCAPE CONTRACTOR MUST BE EXPERIENCED IN COMMERCIAL INSTALLATIONS AND PROVIDE REFERENCES AND OTHER DETAILED INFORMATION TO ENABLE THE OWNER TO JUDGE HIS EXPERIENCE AND CAPABILITY TO PERFORM THE WORK. GRASS AREAS TO BE RESTORED SHALL BE SEEDED UNLESS OTHERWISE SHOWN ON THE CONTRACT DRAWINGS. THE SEED SHALL BE PLACED ON A FOUR (4) INCH BED OF COMPACTED TOPSOIL THAT HAS BEEN RAKED AND BROUGHT TO AN EVEN SURFACE. TOPSOIL SHALL BE SHREDDED AND BE FREE OF ROCKS, ROOTS, AND WEEDS. THE CONTRACTOR SHALL PROVIDE TOPSOIL SAMPLES AND SOURCES OF SUPPLY TO THE ENGINEER FOR APPROVAL PRIOR TO DELIVERY OF THE MATERIAL TO THE JOB SITE.

- SEWER INSTALLATION
- ALL SANITARY SEWER 21" AND UNDER AND ALL STORM SEWER 18" AND UNDER SHALL BE PVC, SDR 26 RESILIENT AND FLEXIBLE (PREMIUM) JOINTS UNLESS OTHERWISE SHOWN ON THE PLANS. ALL STORM SEWER 21" AND GREATER SHALL BE ASTM C76 REINFORCED CONCRETE PIPE, CL III, WITH ASTM C 443 RESILIENT AND FLEXIBLE (PREMIUM) JOINTS UNLESS OTHERWISE SHOWN ON THE PLAN.
  - THE MAINLINE SANITARY AND STORM SEWERS SHALL BE VISUALLY INSPECTED TWICE BY MEANS OF TELEVISION AND RECORDING ON VHS FORMAT VIDEOTAPE ALONG WITH AUDIO COMMENTARY. THE TELEVISION AND VIDEOTAPE RECORDING SHALL BE PERFORMED ONCE BEFORE PAVING OPERATIONS BEGIN AND ONCE AFTER THE PAVEMENT IS IN PLACE AND OPENED TO TRAFFIC. TELEVISION SHALL BE AS PER SPECIFICATION 330130.11. ANY DEFECT IN MATERIAL OR WORKMANSHIP REVEALED BY THE VISUAL-AD INSPECTION MUST BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE CITY AND TO THE FULL SATISFACTION OF THE CITY AND ENGINEER BEFORE ACCEPTANCE OF THE WORK AND RELEASE OF FINAL ESTIMATE AND PAYMENT THEREOF. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TOTAL COST OF CLEANING ALL SEWERS PRIOR TO VISUAL INSPECTION. COST OF TELEVISION AND VIDEOTAPE OPERATION SHALL BE INCLUDED IN THE UNIT PRICES STIPULATED FOR THE VARIOUS ITEMS OF THE PROPOSAL.

- PROPERTY PINS AND MONUMENTS
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EMPLOY A REGISTERED SURVEYOR TO LOCATE, RECORD, AND MARK ALL EXISTING MONUMENTS AND PROPERTY CORNERS WITHIN THE CONSTRUCTION LIMITS. THIS COST SHALL BE DISTRIBUTED AMONG THE APPROPRIATE PROJECT PAY ITEMS. A LISTING OF THE PINS AND MONUMENTS SHALL BE SUPPLIED TO THE CITY ENGINEER PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL PROTECT ALL PINS AND MONUMENTS DURING CONSTRUCTION. IF PINS AND MONUMENTS ARE DISTURBED DURING CONSTRUCTION, THE CONTRACTOR SHALL HAVE THEM REPLACED BY THE REGISTERED SURVEYOR AT NO ADDITIONAL COST TO THE CITY.

- EROSION AND DUST CONTROL
- SEDIMENT CONTROL SHALL BE ACCOMPLISHED BY HYDRO SEEDING AND MULCHING IMMEDIATELY UPON COMPLETION OF EXCAVATION OR FILL AND FINISH GRADING IN ACCORDANCE WITH ODOT ITEM 659 OR AS DIRECTED BY THE ENGINEER.
  - THE CONTRACTOR SHALL BEGIN THE RESTORATION PROCESS AS SOON AS CONSTRUCTION IS COMPLETED, PERMANENTLY STABILIZING EACH DISTURBED AREA WITH PERENNIAL VEGETATION INSTALLED ACCORDING TO SOIL CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS.
  - THE CONTRACTOR SHALL REMOVE DAILY ALL MUD, SOIL AND DEBRIS THAT MAY BE TRACKED ONTO EXISTING STREETS OR DRIVES BY HIS EQUIPMENT OR THAT OF SUBCONTRACTORS OR SUPPLIERS.
  - ALL MATERIALS TO BE DISPOSED OF OFF-SITE MUST BE DISPOSED OF IN AN ENVIRONMENTALLY SOUND MANNER IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. NO EXCESS MATERIALS ARE TO BE DISPOSED OF IN ANY WETLAND, FLOOD PLAIN OR OTHER ENVIRONMENTALLY SENSITIVE AREA.
  - EROSION CONTROL MEASURES AT THE DISPOSAL SITE MUST BE INSTALLED AND MAINTAINED UNTIL DISPOSAL IS COMPLETE AND THE DISPOSAL SITE IS PERMANENTLY STABILIZED.
  - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO APPLY WHEN NEEDED OR ORDERED BY THE OWNER WATER OR CALCIUM CHLORIDE PER ODOT 616 FOR THE ALLEVIATION OR PREVENTION OF DUST NUISANCE ORIGINATING FROM HIS CONSTRUCTION ACTIVITIES. SUFFICIENT QUANTITIES OF CALCIUM CHLORIDE SHALL BE STORED ON THE JOB SITE AT ALL TIMES TO BE USED FOR DUST CONTROL. THE COST OF DUST CONTROL SHALL BE INCLUDED IN THE UNIT BID PRICES FOR ALL ITEMS OF THE PROPOSAL.
  - OTHER EROSION AND SEDIMENT CONTROL PRACTICES SHALL MINIMIZE SEDIMENT LADEN WATER ENTERING ACTIVE STORM DRAIN SYSTEMS, UNLESS THE STORM DRAIN SYSTEM DRAINS TO A SEDIMENT POND. INLET PROTECTION IS MANDATORY WHERE SEDIMENT SETTLING PONDS WILL NOT BE IMPLEMENTED.

- EXCESS EXCAVATION
- ALL EXCESS EXCAVATION SHALL BE DISPOSED OF IN A LOCATION TO BE SELECTED BY THE CONTRACTOR. THE CONTRACTOR MUST OBTAIN A PERMIT FROM THE CITY IF THE MATERIAL IS TO BE DISPOSED OF WITHIN THE CITY LIMITS.

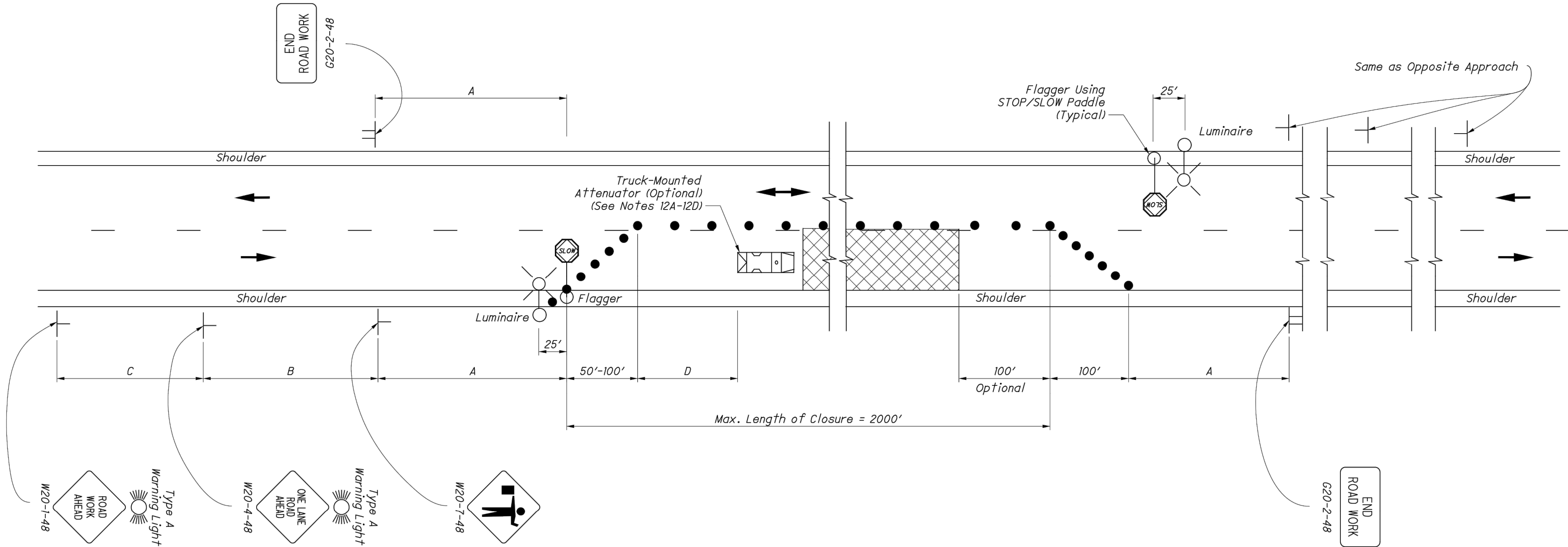
- AIR/NOISE CONTROL
- CONSTRUCTION ACTIVITIES WILL BE LIMITED TO WEEKDAY DAYTIME HOURS, UNLESS APPROVED IN ADVANCE BY THE CITY.

- WATER WORKS
- DEPTH OF EXISTING WATER MAINS AND SEWERS AT LOCATIONS WHERE NEW WATER MAIN IS PROPOSED TO CROSS, THE NEW WATER MAIN ELEVATION SHALL BE ADJUSTED BY VERTICAL JOINT DEFLECTION FROM THE SIX (6) FOOT TYPICAL BURY DEPTH ONE (1) FOOT EITHER WAY BUT IN NO CASE HIGHER THAN THE MINIMUM FIVE (5) FOOT BURY DEPTH TO AVOID CROSSING CONFLICTS WITH THE EXISTING WATER MAIN AND SEWERS AT NO ADDITIONAL COST TO THE CONTRACT. IF DEPTH ADJUSTMENT BY VERTICAL JOINT DEFLECTION IS NOT POSSIBLE TO AVOID CROSSING CONFLICTS THE PROPOSED WATER MAIN SHALL BE LOWERED IN ACCORDANCE WITH THE PIPE LOWERING DETAIL, AT NO ADDITIONAL COST TO THE CITY.
  - HYDRANTS DESIGNATED FOR REMOVAL SHALL BE REMOVED UNDER LAKE COUNTY WATER DEPARTMENT SUPERVISION. SPECIAL CARE IN REMOVAL AND HANDLING OF EXISTING HYDRANTS SHALL BE TAKEN AT ALL TIMES. REMOVAL OF EXISTING HYDRANTS IS TO BE DONE BY EXCAVATION AND DISASSEMBLY OF HYDRANT ASSEMBLIES.
  - ALL REMOVED HYDRANTS SHALL BECOME THE PROPERTY OF THE LAKE COUNTY WATER DEPARTMENT. REMOVED HYDRANTS ARE TO BE STORED ON JOB SITE FOR PICK-UP BY THE LAKE COUNTY WATER DEPARTMENT. CONTACT AQUARIUS SERVICE CENTER TO SCHEDULE PICK-UP.
  - ALL HYDRANTS PROVIDED SHALL BE 5'-6" BURY DEPTH (BURY LINE TO BOTTOM OF HYDRANT SHOE) WITH EXTENSIONS PROVIDED TO THE WATER MAIN DEPTH SHOWN IN THE PLANS.
  - THE WICKLIFFE FIRE PREVENTION BUREAU IS TO BE NOTIFIED WHEN WATER WORK IS STARTED. (943-7141)
  - SERVICE RECONNECTIONS TO EXISTING METER VAULTS SHALL BE MADE BETWEEN THE NEW MAIN AND THE EXISTING VAULT. WHERE EXISTING VAULTS ARE ENCOUNTERED IN DRIVE APRONS, THEY SHALL BE EXPOSED AND A FIELD DECISION MADE AS TO WHETHER THE VAULT CAN BE RELOCATED TO THE TREELAWN.
  - ABANDONMENT OF THE EXISTING WATER MAIN SHALL BE MADE AS CLOSE TO THE LIVE MAIN AS POSSIBLE. THIS SHALL BE DETERMINED BY L.C.D.U.
  - AFTER SATISFACTORY TESTING, THE COMPLETED WATER WORK SHALL BE DISINFECTED IN ACCORDANCE WITH A.W.W.A. C651. THE NEW WATER MAIN CANNOT BE PLACED INTO SERVICE UNTIL ALL PROVISIONS OF A.W.W.A. ARE MET.
  - THE EXISTING HYDRANTS WILL NOT BE TAKEN OUT OF SERVICE UNTIL ALL NEW HYDRANTS FOR A GIVEN STREET ARE OPERATIONAL. ALL NEW HYDRANTS SHALL BE BAGGED UNTIL THEY ARE OPERATIONAL.
  - ALL CURB STOP BOXES, VALVE BOXES ETC. SHALL BE SET AS SHOWN ON THE PLANS. RIMS SHALL BE RAISED OR LOWERED AND BOXES PLUMBED BY THE CONTRACTOR AS REQUIRED PRIOR TO REPLACEMENT.
  - ALL VALVES SHALL BE OPERATED BY THE LAKE COUNTY UTILITY DEPARTMENT ONLY. THE CONTRACTOR SHALL SCHEDULE WITH THE LAKE COUNTY UTILITIES DEPARTMENT 24 HOURS IN ADVANCE.
  - NO CURB BOXES OR METER VAULTS SHALL FALL WITHIN ANY DRIVE OR APRON.
  - SHOULD ANY EXISTING METER REQUIRE REPLACEMENT, AS DETERMINED BY THE L.C.D.U., THE CONTRACTOR SHALL REPLACE THE METER AND THE NEW METER WILL BE SUPPLIED BY THE L.C.D.U.

- LAKE COUNTY DEPARTMENT OF UTILITIES WATER NOTES
- ONLY WATER/SEWER CONTRACTORS LICENSED BY THE LAKE COUNTY BOARD OF COMMISSIONERS MAY INSTALL WATER MAINS.
  - THIS APPROVAL BY THE LCDU SHALL EXPIRE IF THE WATERLINE CONSTRUCTION HAS NOT BEEN INITIATED BY A DEVELOPER WITHIN (12) MONTHS OF THE EFFECTIVE APPROVAL DATE AS SHOWN ON THE ORIGINALLY SUBMITTED FOR APPROVAL BLUEPRINT COPY. (THIS IS NOT TO BE CONSTRUED AS THE DATE THAT IS SHOWN ON THE ORIGINAL MYLAR TITLE SHEET.)
  - THE CONTRACTOR SHALL NOTIFY THE LCDU AT LEAST 48 HOURS IN ADVANCE OF ANY WORK IN THEIR SYSTEMS.
  - THE LCDU SHALL PERFORM INSPECTION SERVICES. THE COST OF INSPECTION SHALL BE INCLUDED AS PART OF THIS CONSTRUCTION PROJECT AT THE CURRENT BASE RATE AS ESTABLISHED BY THE LAKE COUNTY BOARD OF COMMISSIONERS. (SEE SECTION 7 FEE SCHEDULE) COST FOR LAKE COUNTY INSPECTION FEE AND OTHER FEES SHALL BE INCLUDED IN THE UNIT PRICES BID FOR OTHER WATERLINE ITEMS.
  - WATERLINE WORK SHALL NOT BEGIN UNTIL THE AREAS OF CONSTRUCTION ARE ROUGH GRADED.
  - ALL WATERLINES ON THIS PROJECT SHALL BE LAID AT THE ELEVATIONS AND GRADES SHOWN ON THE DRAWINGS. HIGH POINTS IN THE WATERLINE MUST OCCUR AT THE STATIONED HYDRANT TEE LOCATIONS.
  - ALL HYDRANTS SHALL BE POSITIONED SO THAT THE STEAMER NOZZLES POINT IN THE DIRECTION SHOWN ON THE PLANS.
  - THE PROPOSED WATERLINE SHALL HAVE 5' MINIMUM COVER OVER THE TOP OF PIPE AT ALL PLACES, EXCEPT AT SPECIFIC HYDRANT TEE LOCATIONS AS SHOWN ON THE PLANS.
  - ALL BOLTS SHALL BE STAINLESS STEEL TYPE 304 OR 316. WITH ANTI-GALLING AGENT.
  - ALL SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR PRELIMINARY CHECKING. THE ENGINEER SHALL FORWARD CHECKED SHOP DRAWINGS TO THE LCDU FOR FINAL CHECKING AND APPROVAL.
  - THE LCDU SHALL PROVIDE WATER FOR THE NEW WATER MAIN WITHOUT COST FOR THE INITIAL OPERATION. ALL WATER FOR FLUSHING OPERATIONS SHALL BE PAID FOR BY THE CONTRACTOR AT CURRENT RATES AS ESTABLISHED BY THE LAKE COUNTY BOARD OF COMMISSIONERS PER 100 CUBIC FEET OF WATER USED. (SEE SECTION 7 FEE SCHEDULE) A-2
  - ALL WATER MAIN PIPE SHALL BE DUCTILE IRON PIPE, ANSI A21.51, THICKNESS CLASS 53, UNLESS OTHERWISE SHOWN ON THE PLANS, WITH PUSH-ON JOINTS. CEMENT LINED ANSI A 21.4. FITTINGS TO BE FULL BODY-ONLY.
  - LOCATION OF STERILIZATION AND TESTING CONNECTIONS SHALL BE AS DIRECTED BY THE LCDU AND ALL COSTS ASSOCIATED WITH PLACING AND UTILIZING SAID STERILIZATION AND TESTING CONNECTIONS SHALL BE INCLUDED IN THE PRICE BID PER LINEAL FOOT OF THE WATER MAINS. NO BACTERIA SAMPLES ARE TO BE TAKEN FROM FIRE HYDRANTS.
  - LCDU WILL MAKE THE NECESSARY NEW SERVICE CONNECTION TAPS ON EXISTING LCDU MAINS FOR THE CONTRACTOR AT CURRENT RATES AS ESTABLISHED BY THE LAKE COUNTY BOARD OF COMMISSIONERS PER 8" AND GREATER TAPS WITHIN RIGHT OF WAY. (SEE SECTION 7 FEE SCHEDULE) SERVICE CONNECTIONS TO EXISTING BUILDINGS SHALL BE MADE BY THE CONTRACTOR.
  - NO WATER SERVICE CONNECTIONS TO ANY BUILDING SHALL BE PERMITTED PRIOR TO FINAL ACCEPTANCE BY THE LCDU INCLUDING RECTIFICATION OF ALL PUNCH LIST ITEMS.
  - ALL CURB STOP BOXES, VALVE BOXES, ETC. TO BE SET AS SHOWN ON THE PLANS. RIMS WILL BE RAISED OR LOWERED AND BOXES PLUMBED BY THE CONTRACTOR AT TIME OF HOUSE CONSTRUCTION WHEN FINAL YARD GRADING IS COMPLETED.
  - ALL PROJECT HYDRANTS SHALL HAVE A FIELD COAT OF APPROVED PAINT APPLIED BY THE CONTRACTOR WITH THE EXCEPTION OF HYDRANTS THAT ARE FACTORY PAINTED WITH A ONE COAT UV RESISTANT HIGH GLOSS 2-PART POLYURETHANE ENAMEL, COLOR AS SPECIFIED. IF THE COATING ON THE HYDRANT IS DAMAGED BEFORE INSTALLATION THE HYDRANT MUST BE PAINTED.
  - THE CONTRACTOR SHALL NOTIFY THE FIRE DEPARTMENT PRIOR TO ANY PRESSURE TESTING. FIRE DEPARTMENT SHALL WITNESS ANY PRESSURE TESTING.
  - ALL PROPOSED WATER LINES SHALL BE LAID OUT BY A REGISTERED SURVEYOR WITH GRADE STAKES AT A MINIMUM OF EVERY 50' AND AT ALL FITTINGS AND A CUT SHEET PROVIDED PRIOR TO CONSTRUCTION.
  - THE CONTRACTOR/DEVELOPER SHALL SUBMIT A THREE YEAR MAINTENANCE BOND TO THE COMMISSIONERS BY DEVELOPER IN THE AMOUNT OF TEN PERCENT OF THE FINAL CONSTRUCTION COSTS AS CERTIFIED BY THE DEVELOPER'S ENGINEER, FOR PUBLIC EXTENSION PROJECTS.

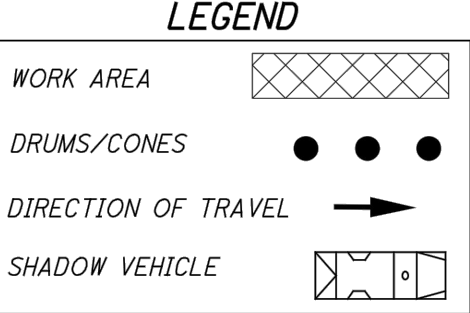
		NO	REVISION	DATE	<b>CITY OF WICKLIFFE</b>  <b>PARKWOOD DRIVE &amp; KERRY LANE WATERMAIN AND PAVEMENT IMPROVEMENTS</b>  <b>LAKE COUNTY, OHIO</b>	ISSUED FOR:	DRAFT	<b>GENERAL NOTES</b>	PROJECT NO.	
						ISSUE DATE:	8/25/2025		32252	
						SCALE:	AS SHOWN		DISCIPLINE	
						DESIGNED BY:	PJF		CIVIL	
						DRAWN BY:	CKW		SHEET NAME	
						CHECKED BY:	PJF		GN-1	
									SHEET	OF
									2	18





ROAD TYPE	DISTANCE BETWEEN SIGNS (FT)		
	A	B	C
Two-Lane (< 40 MPH)	100	100	100
Two-Lane (45-50 MPH)	350	350	350
Two-Lane (55-60 MPH)	500	500	500

TABLE II	
SPEED LIMIT (MPH)	BUFFER (D) (FT) MIN.
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570



NOTES:

FLAGGERS

1. Flaggers, one for each direction, shall be used to control traffic continuously for as long as a one lane operation is in effect. The flaggers shall be able to communicate with each other at all times.

LENGTH OF CLOSURE

2. Several small work areas close together should be combined into one work zone. However, the closure shall not be more than 2000' long unless approved by the Engineer. The minimum length between closures shall be 2000'. Only one side of the road shall be closed in any one work zone.

SIGN LOCATION AND SPACING

- 3A. The minimum spacing between work zone signs is shown in Table I. Maximum spacing should not be greater than 1.5 times the distances shown in Table I.
- 3B. Sign spacing should be adjusted to avoid conflict with existing signs. Minimum spacing to existing signs shall be 200' for speeds of 45 mph or less and a minimum of 400' for speeds of 50 mph or greater.
- 3C. The location of the advance warning signs should be adjusted to provide for adequate sight distance for the existing vertical and horizontal roadway alignment.

ADJUSTMENTS FOR SIGHT DISTANCE

4. The location of the flagger station and the advance warning signs should be adjusted to provide for adequate sight distance for the existing vertical and horizontal roadway alignment.

BASIC SIGNING

- 5A. ROAD WORK AHEAD (W20-1) signs shall be provided on entrance ramps or roadways entering the work limits.
- 5B. END ROAD WORK (G20-2) signs are only required for lane closures of more than 1 day. If it is intended that these signs be placed on the mainline, on all exit ramps, and on roadways exiting the work limits.
- 5C. Overlapping of signing for adjacent projects should be avoided where the messages could be confusing. Any ROAD WORK AHEAD (W20-1) or END ROAD WORK (G20-2) sign which falls within the limits of another traffic control zone shall be omitted or covered during the period when both projects are active.

SIGNING DETAILS

- 6A. The Advisory Speed (W13-1P) plaque shall be used when specified in the plan.
- 6B. 36" warning signs may be used when the approach speed limit is 40 mph or less.

FLASHING WARNING LIGHTS

7. Type A flashing warning lights shown on the ROAD WORK AHEAD (W20-1) signs and on the LANE CLOSED AHEAD (W20-5) signs are required whenever a night lane closure is necessary.

DRUMS / CONES

- 8A. Drum spacing shall be as follows:

- a) Spacing along the closure shall be 40' center-to-center.
- b) Spacing along the approach taper shall be 10' center-to-center.

- 8B. Cones may be substituted for drums as follows:

- a) Cones used for daytime traffic control shall have a minimum height of 28".
- b) Cones used for nighttime traffic control shall have a minimum height of 42".
- c) Use of cones at night shall be prohibited along tapers.

- 8C. Provisions shall be made to stabilize the cones and drums to prevent them from blowing over.

- 8D. A minimum of two drums shall be used to close the paved shoulder.

(RESERVED FOR FUTURE USE)

- 9A. (intentionally blank)

AREA ILLUMINATION

- 10A. Adequate area illumination of each flagger station shall be provided at night. Use of portable flood lighting is acceptable. Luminaires shall be located adjacent to each flagger station.

- 10B. To ensure the adequacy of floodlight placement and the elimination of glare, the Contractor and the Engineer shall drive through the worksite each night when the lighting is in place. Light placement and shielding shall be adjusted to the satisfaction of the Engineer.

INTERSECTION / DRIVEWAY ACCESS

11. Within the length of closure, provision shall be made to control traffic entering from intersecting streets and major drives as necessary to prevent wrong-way movements and to keep vehicles off of new pavement not ready for traffic. The Contractor shall:

- a) Place across the closed lane, either three drums (cones) or barricades, and/or
- b) Provide an additional flagger at every public street intersection and major driveway.

Drums (cones) placed across the closed lane shall be located 25' beyond the projected pavement edges of the driveway or cross highway, as shown in Standard Construction Drawings (SCDs MT-97.11 or MT-97.12. For barricades, see SCD MT-101.60.

Existing STOP signs shall be relocated as necessary to assure proper location for the traffic conditions.

The method of control shall be subject to the approval of the Engineer.

SHADOW VEHICLE

- 12A. The shadow vehicle shall be in place and unoccupied whenever workers are in the work area. This vehicle shall be removed from the pavement whenever workers are not in the work area.

- 12B. The shadow vehicle shall be equipped with a high-intensity yellow rotating, flashing, oscillating, or strobe light(s).

- 12C. The vehicle shall be equipped with a truck-mounted attenuator when called for in the plans.

- 12D. Other protective devices may be used in lieu of the shadow vehicle shown when approved by the Engineer.

CHIP SEAL OPERATIONS

13. For chip seal operations, additional signing shall be incorporated in the advanced warning area.

- a) The LOOSE GRAVEL (W8-7) and FRESH TAR (W21-2) signs shall both be used in advance of the chip seal operation.
- b) Repeat the LOOSE GRAVEL sign with a 35 mph Advisory Speed (W13-1) plaque every half mile per CMS 422.03.
- c) The FRESH TAR and the LOOSE GRAVEL signs shall both be used for signing of side roads intersecting the work area.

MAINTAINING TRAFFIC

ONE-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES FOR LOCAL TRAFFIC AND EMERGENCY VEHICLES. LOCAL ACCESS TO ABUTTING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES. ACCESS TO ALL DRIVEWAYS SHALL ALSO BE MAINTAINED AT ALL TIMES.

PART WIDTH CONSTRUCTION, ONE LANE WIDTH, SHALL BE USED DURING THE PERFORMANCE OF PAVING OPERATIONS.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN SAFE AND SATISFACTORY LOCAL ACCESS, VEHICULAR AND PEDESTRIAN, TO ALL ABUTTING PROPERTIES WITHIN THE PROJECT. THE CONTRACTOR SHALL FURNISH, MAINTAIN, AND SUBSEQUENTLY REMOVE ALL NECESSARY SAFEGUARDS SUCH AS BARRICADES, BARRIERS, TEMPORARY PAVEMENT, LIGHTING, FLAGMEN, TEMPORARY GUARDRAIL, DETOUR AND CONSTRUCTION SIGNING AND OTHER TRAFFIC CONTROLS SO AS TO AVOID DAMAGE AND/OR INJURY TO AND ENSURE THE SAFETY OF VEHICLES AND PERSONS USING THE ROADWAY DURING CONSTRUCTION BOTH WITHIN AND OUTSIDE OF THE PROJECT LIMITS.

MAINTAINING TRAFFIC SHALL BE IN ACCORDANCE WITH ODOT ITEM 614 AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. DETOUR ROUTES & SIGNAGE SHALL MEET THE APPROVAL OF THE CITY ENGINEER.

IN ORDER TO MAINTAIN LOCAL AND DRIVEWAY ACCESS, THE CONTRACTOR SHALL FURNISH AND INSTALL TRAFFIC COMPACTED SURFACE, TYPE A OR B IN ACCORDANCE WITH ODOT ITEM 410 LESTONE OR GRAVEL ONLY INCLUDING NECESSARY WATER AND CALCIUM CHLORIDE IN ACCORDANCE WITH ODOT ITEM 616 AS DIRECTED BY THE ENGINEER. NO SEPARATE PAYMENT WILL BE MADE FOR MAINTAINING TRAFFIC INCLUDING PROVIDING TRAFFIC COMPACTED SURFACES, OTHER TEMPORARY ROADWAYS, TRAFFIC CONTROL, AND ALL OTHER SAFEGUARDS. COST FOR MAINTAINING TRAFFIC INCLUDING ALL MATERIALS, LABOR AND EQUIPMENT FOR CONSTRUCTION, MAINTENANCE AND SUBSEQUENT REMOVAL SHALL BE INCLUDED IN THE UNIT PRICES STIPULATED FOR THE VARIOUS ITEMS OF THE PROPOSAL.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

NOTICE OF CLOSURE SIGNS, FOR SEVERAL SIDE ROADS, AS DETAILED IN THESE PLANS, SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHT HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE.

THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS SHOWN ON THE PLANS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

PAVEMENT REPLACEMENT

TRENCH EXCAVATION FOR PAVEMENT REPLACEMENT SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF REPLACEMENT SECTION WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

LAW ENFORCEMENT OFFICER WITH PATROL CAR

IN ADDITION TO THE REQUIREMENTS OF 614 AND THE LATEST EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (OMUTCD), A UNIFORMED LAW ENFORCEMENT OFFICER AND OFFICIAL PATROL CAR WITH WORKING TOP MOUNTED EMERGENCY FLASHING LIGHTS SHALL BE PROVIDED FOR CONTROLLING TRAFFIC WITH THE CONCURRENCE OF THE PROJECT ENGINEER FOR THE FOLLOWING TASKS:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED.

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

LAW ENFORCEMENT OFFICERS (L.E.O.'S) SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED. THE LEO'S ARE CONSIDERED TO BE EMPLOYED BY THE CONTRACTOR AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR ACTIONS. ALTHOUGH THEY ARE EMPLOYED BY THE CONTRACTOR, THE PROJECT ENGINEER SHALL HAVE CONTROL OVER THEIR PLACEMENT. THE OFFICIAL PATROL CAR SHALL BE A PUBLIC SAFETY VEHICLE AS REQUIRED BY THE OHIO REVISED CODE. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THESE SERVICES WITH:

WICKLIFFE POLICE DEPARTMENT  
28730 RIDGE ROAD  
WICKLIFFE, OH 44092  
(440) 943-1234

LAW ENFORCEMENT OFFICERS WITH PATROL CAR REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR UNDER THE MAINTENANCE OF TRAFFIC LUMP SUM BID ITEM.

CONTRACTOR'S EQUIPMENT - OPERATION AND STORAGE

THE CONTRACTOR'S EQUIPMENT SHALL BE OPERATED IN THE DIRECTION OF TRAFFIC. A QUALIFIED FLAGGER SHALL BE EMPLOYED WHERE THE CONTRACTOR'S EQUIPMENT MUST MERGE WITH THE TRAFFIC STREAM. THE CONTRACTOR'S EQUIPMENT SHALL BE EQUIPPED WITH AT LEAST ONE AMBER FLASHING LIGHT. PAVERS, ROLLERS AND OTHER EQUIPMENT MAY BE PARKED IN AREAS ALONG THE HIGHWAY WHEN PAVING OPERATIONS ARE SCHEDULED TO CONTINUE WITHIN THE NEXT WORKDAY. OTHERWISE THE EQUIPMENT SHALL BE STORED AT A STORAGE AREA OUTSIDE THE R/W. THE LOCATION OF WHICH SHALL HAVE PRIOR APPROVAL OF THE ENGINEER. WHEN PARKING ALONG THE HIGHWAY THE EQUIPMENT SHALL BE PLACED AND DELINEATED AS PER 614.03. ALL EQUIPMENT AND STORED MATERIALS SHALL NOT CAUSE SIGNIFICANT SIGHT DISTANCE HAZARDS TO THE TRAVELING PUBLIC. ALL OTHER EQUIPMENT, INCLUDING PRIVATE VEHICLES, SHALL BE STORED AT THE APPROVED CONTRACTOR'S STORAGE AREA. NO EQUIPMENT SHALL BE PARKED ON PRIVATE PROPERTY UNLESS PRIOR APPROVAL OF THE OWNER AND THE PROJECT ENGINEER/SUPERVISOR HAS BEEN GRANTED.

WINTER TRAFFIC LIMITATIONS

TWO LANES IN EACH DIRECTION SHALL BE OPEN TO TRAFFIC.

SUSPENSION OF WORK

IF THE CONTRACTOR FAILS TO COMPLY WITH THE PROVISIONS FOR MAINTENANCE OF TRAFFIC AS SET FORTH IN THESE PLANS OR WITH PROVISIONS OF THE MANUAL, THE ENGINEER MAY SUSPEND WORK UNTIL THE CONTRACTOR COMPLIES WITH THE NECESSARY REQUIREMENTS. NO COMPENSATION WILL BE PAID FOR SUSPENSION OF WORK.

METHOD OF PAYMENT

PAYMENT FOR THE MAINTENANCE OF TRAFFIC ITEMS, UNLESS SPECIFIED SEPARATELY, SHALL BE AT THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC, WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK AS DETAILED IN THE PLANS.

ALTERNATE MAINTENANCE OF TRAFFIC PLANS

IF THE CONTRACTOR SO ELECTS, HE MAY SUBMIT ALTERNATE METHODS FOR THE MAINTENANCE OF TRAFFIC, PROVIDED THE INTENT OF THE ABOVE PROVISIONS IS FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THEREFROM. NO ALTERNATIVE PLAN SHALL BE PLACED INTO EFFECT UNTIL APPROVAL HAS BEEN GRANTED IN WRITING BY THE ENGINEER.



NO	REVISION	DATE

CITY OF WICKLIFFE

**PARKWOOD DRIVE & KERRY  
LANE WATERMAIN AND  
PAVEMENT IMPROVEMENTS**

LAKE COUNTY, OHIO

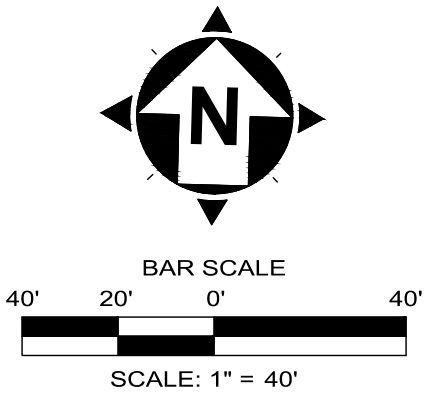
ISSUED FOR:	DRAFT
ISSUE DATE:	8/25/2025
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	CKW
CHECKED BY:	PJF

MAINTENANCE OF TRAFFIC

PROJECT NO.	
32252	
DISCIPLINE	
CIVIL	
SHEET NAME	
MOT-1	
SHEET	OF
3	18



CONTROL MAP  
STATE OF OHIO, COUNTY OF LAKE,  
CITY OF WICKLIFFE



- NOTES:**
- THIS PLAN HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND MAY BE SUBJECT TO EASEMENTS AND OTHER RESTRICTIONS, EITHER RECORDED OR UNRECORDED. THE SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS, RECORD ENCUMBRANCES, RESTRICTIVE COVENANTS OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
  - THESE PLANS MAY HAVE BEEN ALTERED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.
  - THE PROJECT CONTROL COORDINATE SYSTEM IS BASED UPON THE FOLLOWING:  
· HORIZONTAL DATUM - PROJECT CONTROL COORDINATES FOR THIS PROJECT HAVE BEEN ESTABLISHED BY GPS/RTK OBSERVATIONS UTILIZING THE OHIO COORDINATE SYSTEM OF 1983 (ZONE 3401-OHIO NORTH), OHIO STATE PLANE GRID COORDINATE VALUES ARE EXPRESSED IN UNITS OF U.S. SURVEY FEET.  
· VERTICAL DATUM - NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  - THE SURVEY AND STREET ALIGNMENTS SHOWN HEREON WERE OBSERVED IN THE FIELD FOR CONSTRUCTION PURPOSES ONLY AND MAY NOT BE SUITABLE FOR PROPERTY LINE SURVEYS OR OTHER PURPOSES. THE PROPERTY LINES SHOWN HEREON OUR SUBJECT TO AN ACCURATE BOUNDARY SURVEY AND ARE BASED ON FOUND MONUMENTS LOCATED IN THE FIELD BEST FIT TO THE RECORDS.
  - AN ALTA/ NSPS LAND TITLE SURVEY WAS NOT PERFORMED.
  - EASEMENTS, RECORD RESTRICTIONS AND SETBACKS WERE NOT ADDRESSED DURING THIS SURVEY.
  - ALL DIMENSIONS GIVEN ARE EXPRESSED IN US SURVEY FEET.
  - THE BENCHMARK ELEVATIONS SHOWN IN THE PROJECT CONTROL TABLE ARE AT THE TOP OF THE RED CAP OF THE IRON PIN SET.
  - IRON PINS SET ARE 5/8" IRON PINS SET WITH A RED CAP INSCRIBED WITH "CT REF"

LEGEND:

- CENTERLINE MONUMENT
- I.PIN SET
- I.PIN FOUND
- I.PIPE FOUND
- EX RW
- LIMITS OF PUBLIC RW
- CENTERLINE PUBLIC RW
- PARCEL LINES
- SUBDIVISION LINES

POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	713120.1518	2255019.5554	685.57	Iron Pin (Set)
2	713012.0158	2254731.9130	684.99	Iron Pin (Set)
20	713123.8276	2255027.7525	685.75	Iron Pin (Fnd) HEIMBAUGH
21	713125.4212	2255027.4697	686.59	Iron Pin (Fnd) 5-8 IN
22	713122.9680	2254977.7054	685.12	Monument Box (Fnd) 5-8 IN FD
23	712777.3981	2254814.2082	687.48	Iron Pin (Fnd) 3-8 IN
24	713196.4135	2254681.2647	683.25	Iron Pin (Fnd) 5-8 IN
25	713051.8734	2254753.2172	684.10	Monument Box (Fnd) 5-8 IN
26	713065.7162	2254880.2568	685.08	Iron Pin (Fnd) 5-8 IN
27	713172.7202	2254981.3947	685.51	Iron Pin (Fnd) 5-8 IN
28	712968.9536	2254710.0536	687.49	Benchmark (Set) O IN OPEN



NO	REVISION	DATE

CITY OF WICKLIFFE

**PARKWOOD DRIVE & KERRY LANE WATERMAIN AND PAVEMENT IMPROVEMENTS**

LAKE COUNTY, OHIO

ISSUED FOR: DRAFT

ISSUE DATE: 8/25/2025

SCALE: AS SHOWN

DESIGNED BY: PJF

DRAWN BY: CKW

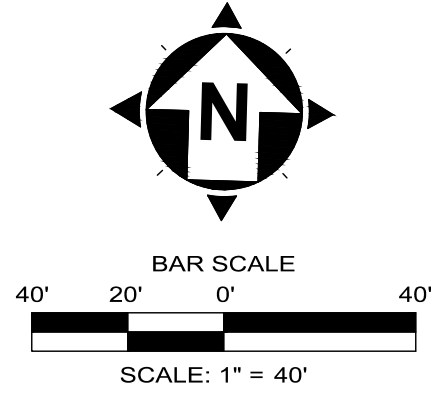
CHECKED BY: PJF

SURVEY CONTROL - KERRY

PROJECT NO.	
32252	
DISCIPLINE	
CIVIL	
SHEET NAME	
SC-K	
SHEET	OF
4	18



CONTROL MAP  
STATE OF OHIO, COUNTY OF LAKE,  
CITY OF WICKLIFFE

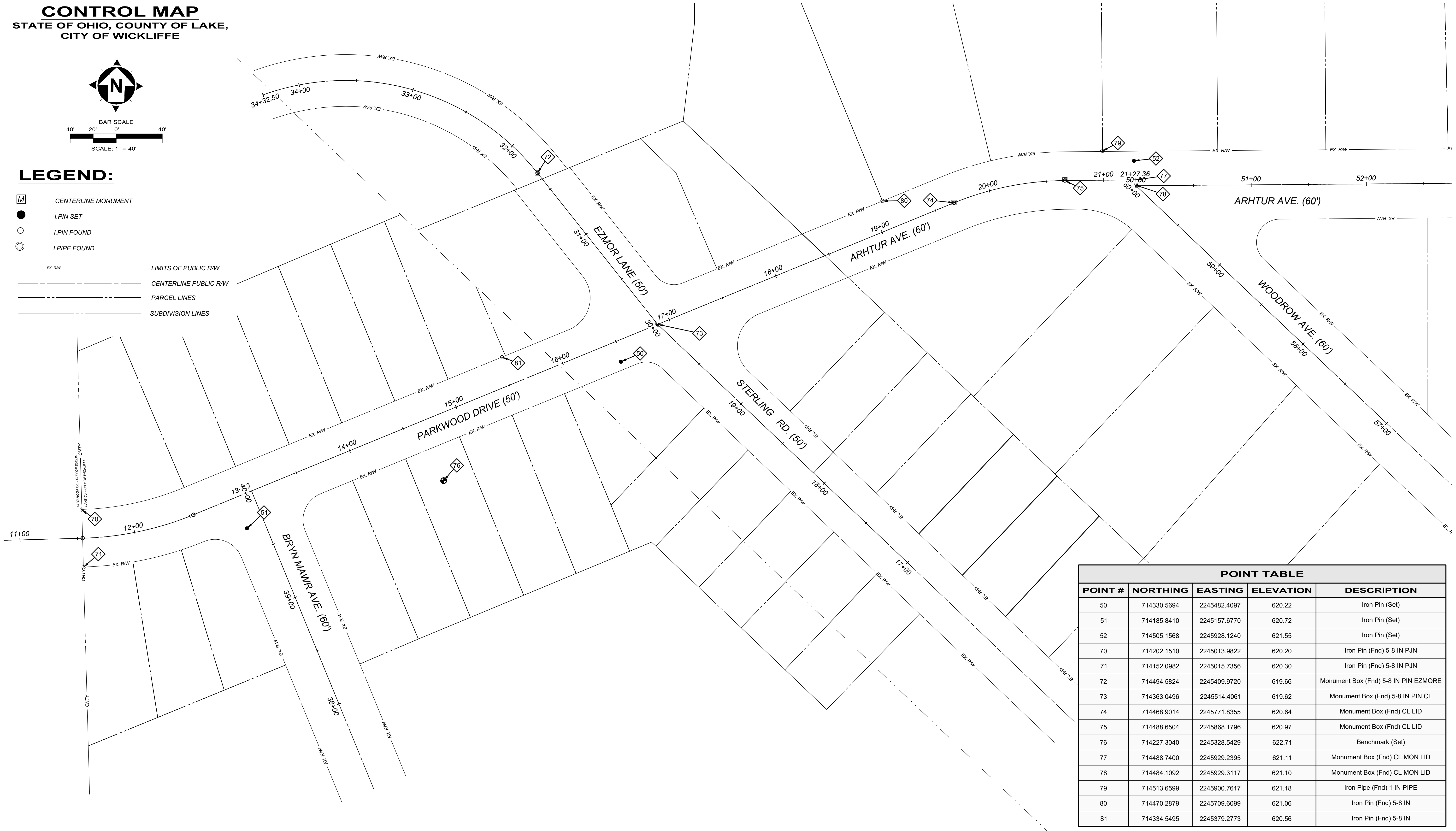


LEGEND:

- M

CENTERLINE MONUMENT
- I.PIN SET
- I.PIN FOUND
- ⊙

I.P.IPE FOUND
- EX. RW
- LIMITS OF PUBLIC R/W
- CENTERLINE PUBLIC R/W
- PARCEL LINES
- SUBDIVISION LINES



POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
50	714330.5694	2245482.4097	620.22	Iron Pin (Set)
51	714185.8410	2245157.6770	620.72	Iron Pin (Set)
52	714505.1568	2245928.1240	621.55	Iron Pin (Set)
70	714202.1510	2245013.9822	620.20	Iron Pin (Fnd) 5-8 IN P.JN
71	714152.0982	2245015.7356	620.30	Iron Pin (Fnd) 5-8 IN P.JN
72	714494.5824	2245409.9720	619.66	Monument Box (Fnd) 5-8 IN PIN EZMORE
73	714363.0496	2245514.4061	619.62	Monument Box (Fnd) 5-8 IN PIN CL
74	714468.9014	2245771.8355	620.64	Monument Box (Fnd) CL LID
75	714488.6504	2245868.1796	620.97	Monument Box (Fnd) CL LID
76	714227.3040	2245328.5429	622.71	Benchmark (Set)
77	714488.7400	2245929.2395	621.11	Monument Box (Fnd) CL MON LID
78	714484.1092	2245929.3117	621.10	Monument Box (Fnd) CL MON LID
79	714513.6599	2245900.7617	621.18	Iron Pipe (Fnd) 1 IN PIPE
80	714470.2879	2245709.6099	621.06	Iron Pin (Fnd) 5-8 IN
81	714334.5495	2245379.2773	620.56	Iron Pin (Fnd) 5-8 IN



NO	REVISION	DATE

CITY OF WICKLIFFE

**PARKWOOD DRIVE & KERRY LANE WATERMAIN AND PAVEMENT IMPROVEMENTS**

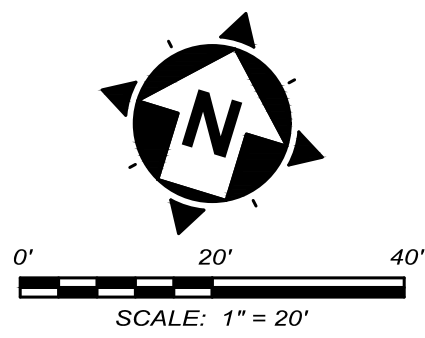
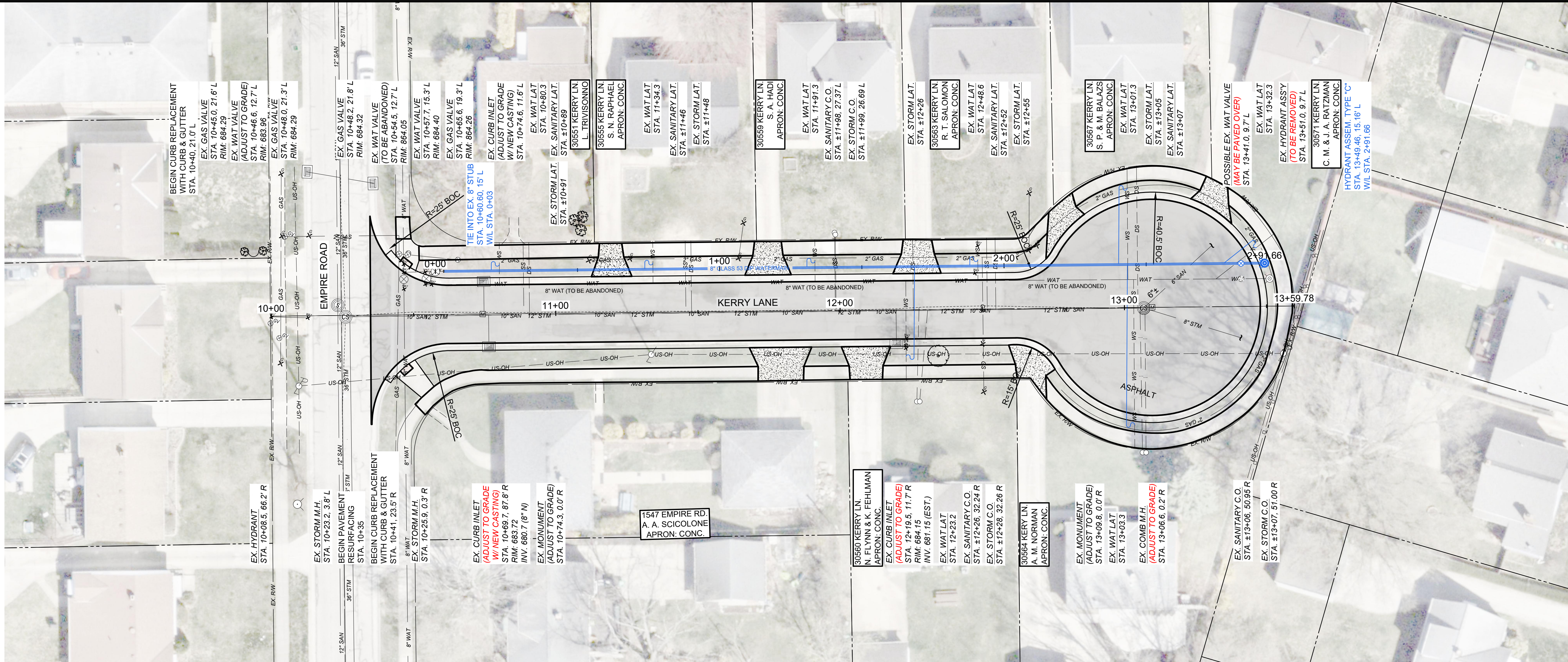
LAKE COUNTY, OHIO

ISSUED FOR:	DRAFT
ISSUE DATE:	8/25/2025
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	CKW
CHECKED BY:	PJF

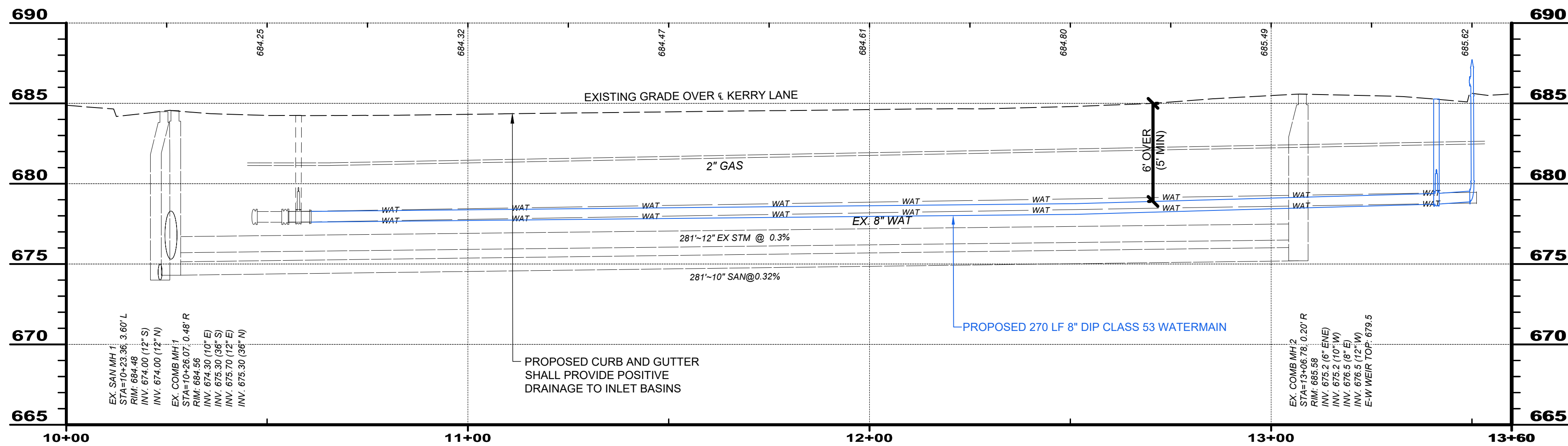
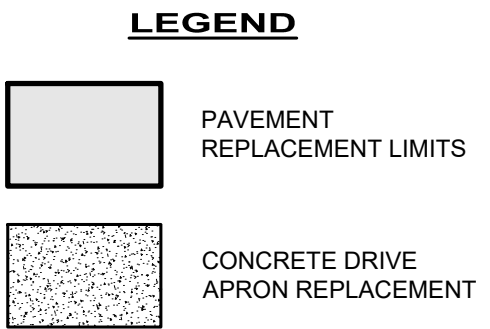
**SURVEY CONTROL - PARKWOOD**

PROJECT NO.	
32252	
DISCIPLINE	
CIVIL	
SHEET NAME	
SC-P	
SHEET	OF
5	18





- NOTES:
- EXISTING WATER SERVICE CONNECTIONS ARE TO BE FIELD LOCATED.
  - CONTRACTOR SHALL ASSUME ONE GAS, WATER, SANITARY AND STORM CONNECTION EACH PER PARCEL.



**verdantas**

NO	REVISION	DATE

CITY OF WICKLIFFE

**PARKWOOD DRIVE & KERRY LANE WATERMAIN AND PAVEMENT IMPROVEMENTS**

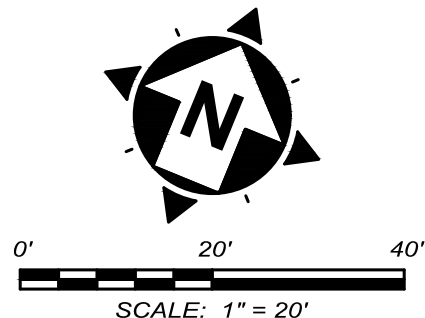
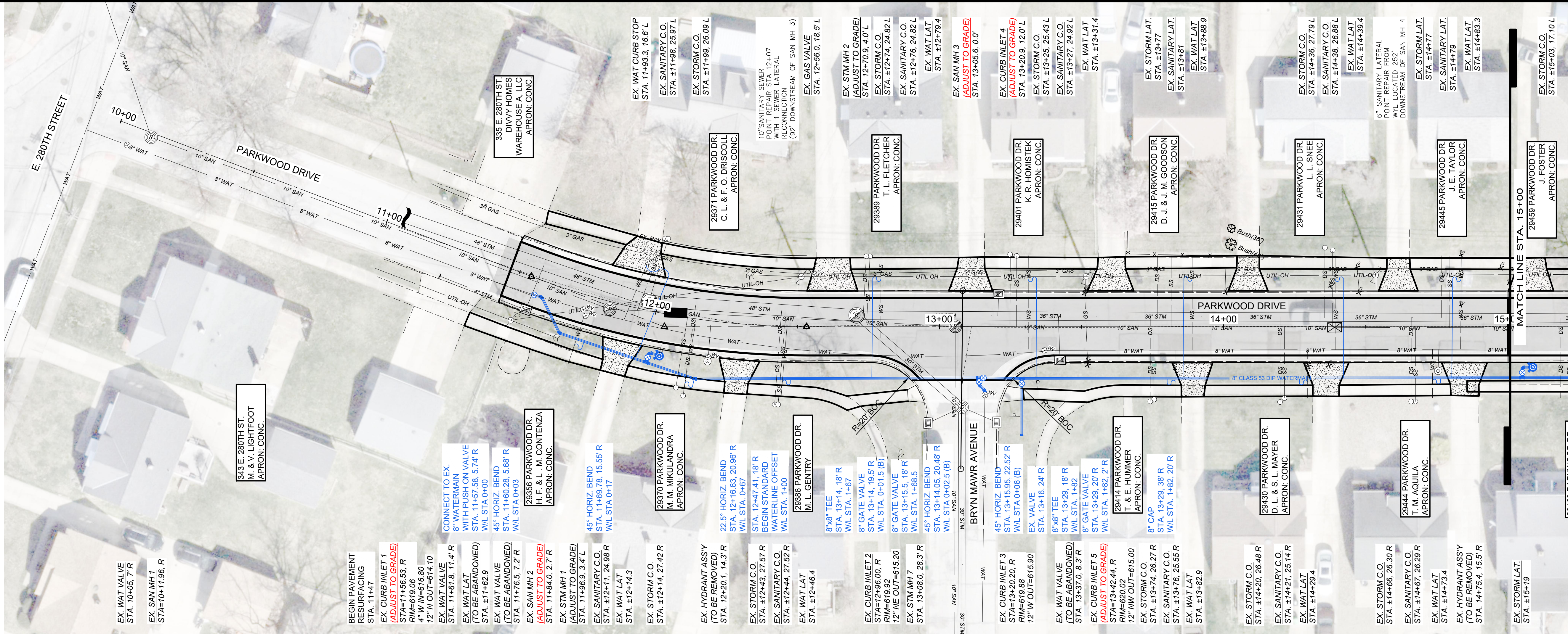
LAKE COUNTY, OHIO

ISSUED FOR: DRAFT  
ISSUE DATE: 8/25/2025  
SCALE: AS SHOWN  
DESIGNED BY: PJF  
DRAWN BY: CKW  
CHECKED BY: PJF

**KERRY LANE  
PLAN & PROFILE**

PROJECT NO.	
<b>32252</b>	
DISCIPLINE	
<b>CIVIL</b>	
SHEET NAME	
<b>Plan K1</b>	
SHEET	OF
<b>6</b>	<b>18</b>

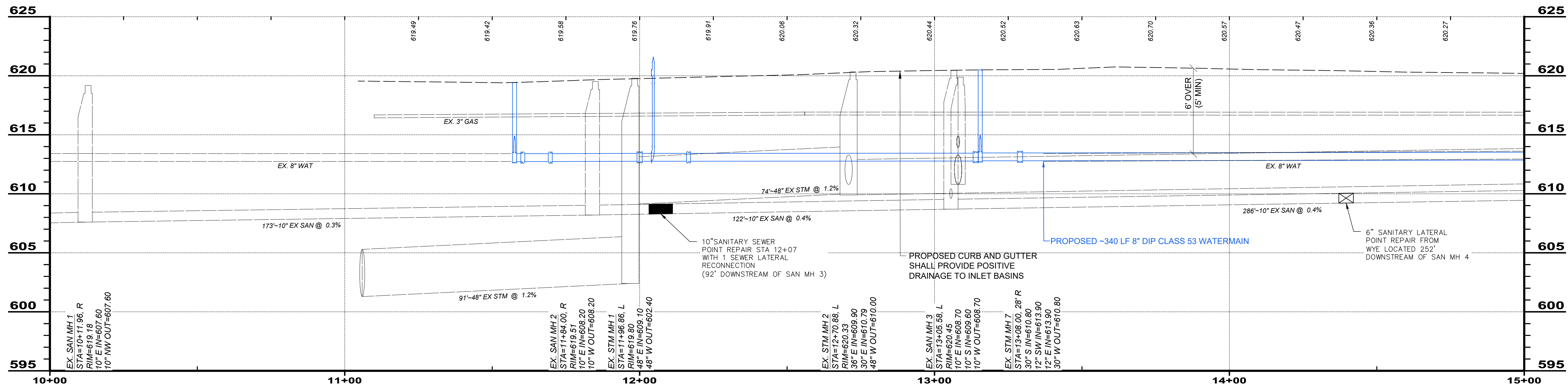




- NOTES:
- EXISTING WATER SERVICE CONNECTIONS ARE TO BE FIELD LOCATED.
  - CONTRACTOR SHALL ASSUME ONE GAS, WATER, SANITARY AND STORM CONNECTION EACH PER PARCEL.

LEGEND

- PAVEMENT REPLACEMENT LIMITS
- CONCRETE DRIVE APRON REPLACEMENT



NO	REVISION	DATE

CITY OF WICKLIFFE

**PARKWOOD DRIVE & KERRY LANE WATERMAIN AND PAVEMENT IMPROVEMENTS**

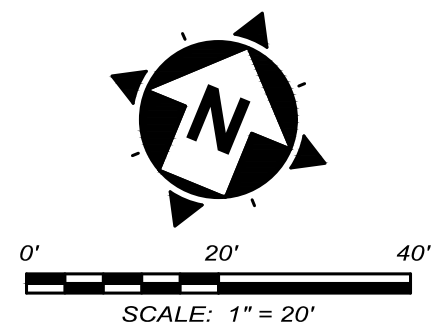
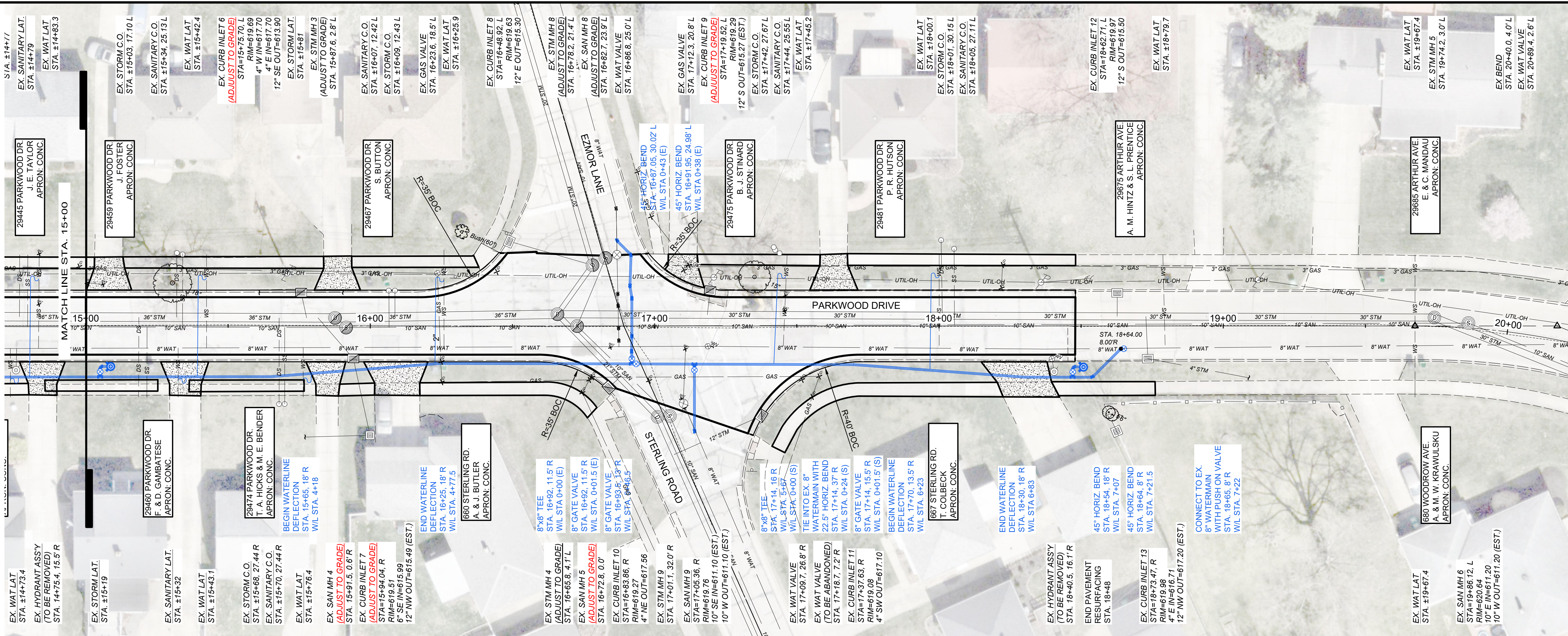
LAKE COUNTY, OHIO

ISSUED FOR:	DRAFT
ISSUE DATE:	8/25/2025
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	CKW
CHECKED BY:	PJF

**PARKWOOD DRIVE  
PLAN & PROFILE  
STA 10+00 TO 15+00**

PROJECT NO.	32252
DISCIPLINE	CIVIL
SHEET NAME	Plan P1
SHEET	7
OF	18

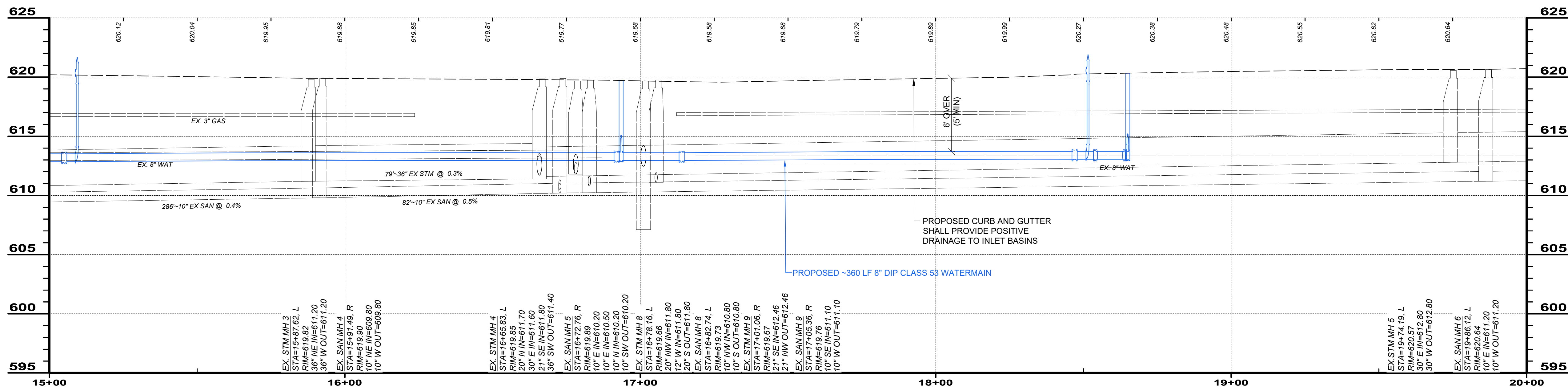




- NOTES:
- EXISTING WATER SERVICE CONNECTIONS ARE TO BE FIELD LOCATED.
  - CONTRACTOR SHALL ASSUME ONE GAS, WATER, SANITARY AND STORM CONNECTION EACH PER PARCEL.

LEGEND

- PAVEMENT REPLACEMENT LIMITS
- CONCRETE DRIVE APRON REPLACEMENT



**verdantas**

NO	REVISION	DATE

CITY OF WICKLIFFE

**PARKWOOD DRIVE & KERRY LANE WATERMAIN AND PAVEMENT IMPROVEMENTS**

LAKE COUNTY, OHIO

ISSUED FOR: DRAFT

ISSUE DATE: 8/25/2025

SCALE: AS SHOWN

DESIGNED BY: PJF

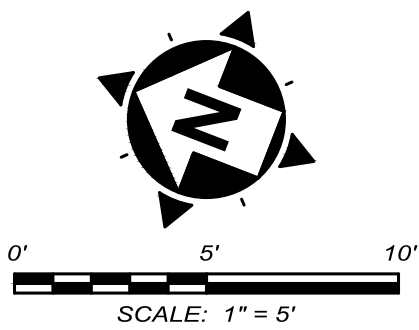
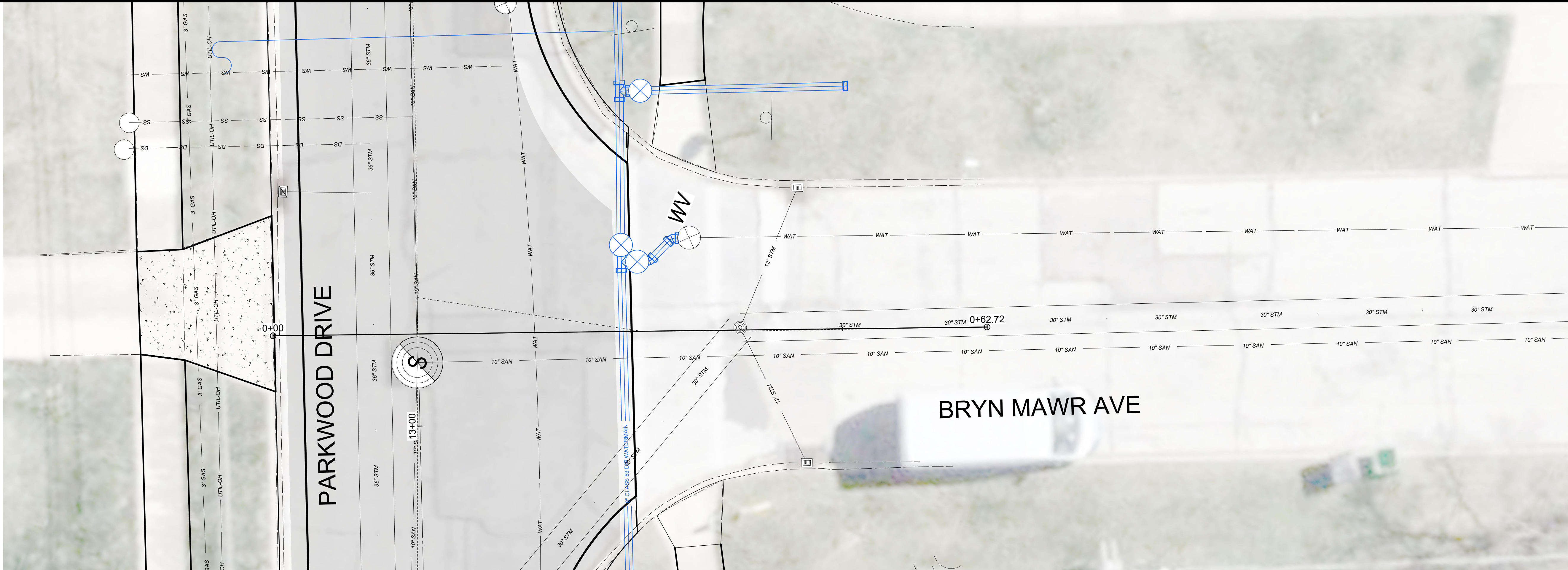
DRAWN BY: CKW

CHECKED BY: PJF

**PARKWOOD DRIVE  
PLAN & PROFILE  
STA 15+00 TO 20+00**

PROJECT NO.	
<b>32252</b>	
DISCIPLINE	
<b>CIVIL</b>	
SHEET NAME	
<b>Plan P2</b>	
SHEET	OF
<b>8</b>	<b>18</b>



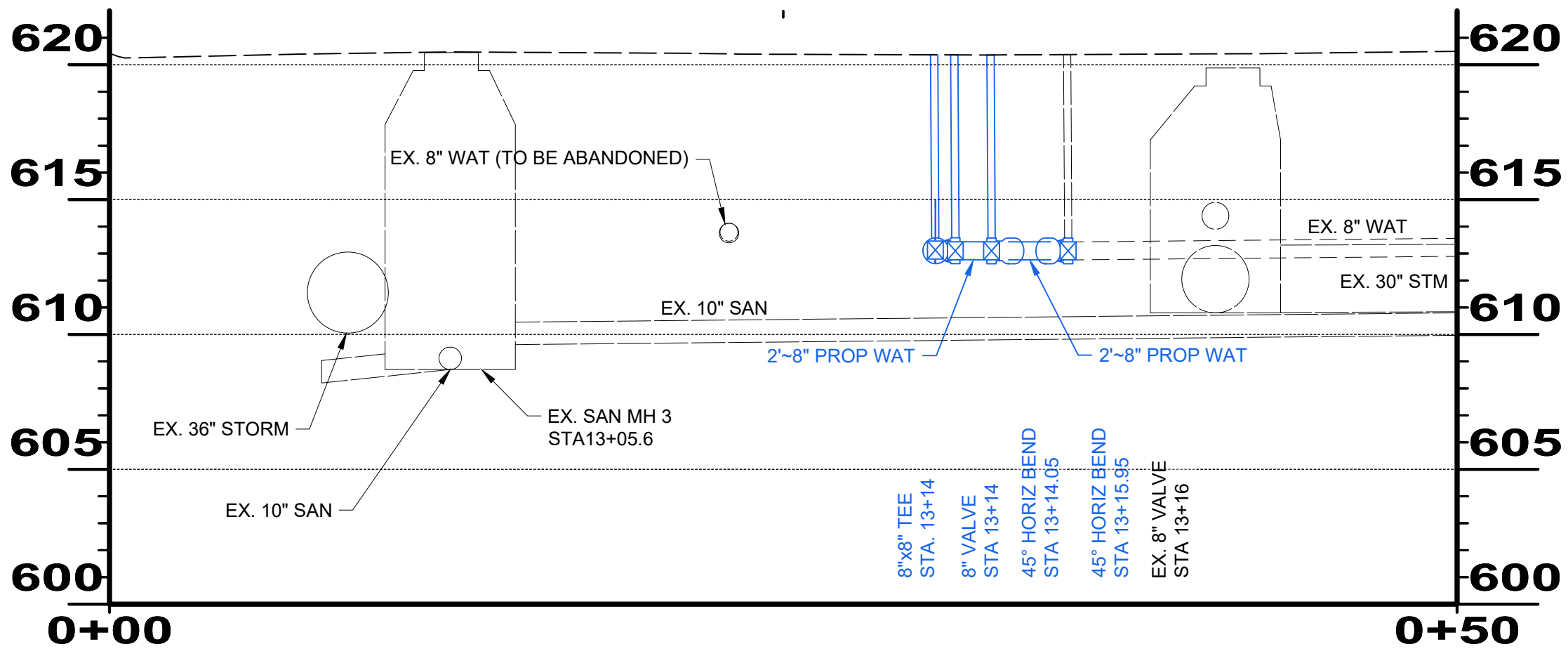


NOTES:

- EXISTING WATER SERVICE CONNECTIONS ARE TO BE FIELD LOCATED.
- CONTRACTOR SHALL ASSUME ONE GAS, WATER, SANITARY AND STORM CONNECTION EACH PER PARCEL.

LEGEND

- PAVEMENT  
REPLACEMENT LIMITS
- CONCRETE DRIVE  
APRON REPLACEMENT



~~BRYN MAWR WATERMAIN~~



verdantas

NO	REVISION	DATE

CITY OF WICKLIFFE

**PARKWOOD DRIVE & KERRY  
LANE WATERMAIN AND  
PAVEMENT IMPROVEMENTS**

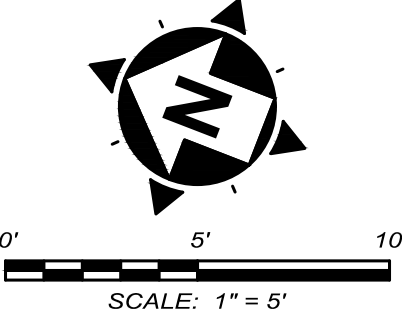
LAKE COUNTY, OHIO

ISSUED FOR:	DRAFT
ISSUE DATE:	8/25/2025
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	CKW
CHECKED BY:	PJF

**BRYN MAWR PLAN &  
PROFILE**

PROJECT NO.	
32252	
DISCIPLINE	
CIVIL	
SHEET NAME	
Bryn Mawr	
SHEET	OF
9	18

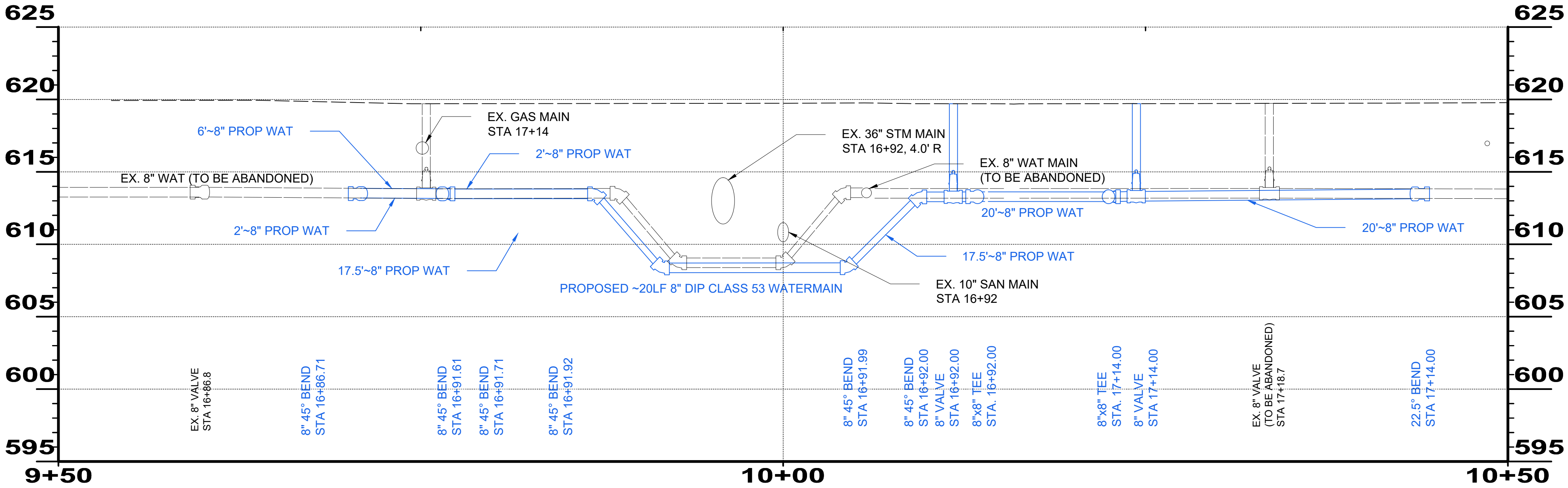




- NOTES:
- EXISTING WATER SERVICE CONNECTIONS ARE TO BE FIELD LOCATED.
  - CONTRACTOR SHALL ASSUME ONE GAS, WATER, SANITARY AND STORM CONNECTION EACH PER PARCEL.

LEGEND

- PAVEMENT REPLACEMENT LIMITS
- CONCRETE DRIVE APRON REPLACEMENT



NO	REVISION	DATE

CITY OF WICKLIFFE

**PARKWOOD DRIVE & KERRY LANE WATERMAIN AND PAVEMENT IMPROVEMENTS**

LAKE COUNTY, OHIO

ISSUED FOR:	DRAFT
ISSUE DATE:	8/25/2025
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	CKW
CHECKED BY:	PJF

**EZMOR AND STERLING PLAN AND PROFILE**

PROJECT NO.	
32252	
DISCIPLINE	
CIVIL	
SHEET NAME	
Ezmor	
SHEET	OF
10	18



TYPICAL SECTION LEGEND

- 1

ASPHALT PLANING - 3"
- 2

ITEM 407 TACK COAT, TRACKLESS TACK  
(APPLICATION RATE PER ODOT TABLE 407.06-1)
- 3

PAVEMENT REINFORCING FABRIC,  
AS SPECIFIED, INCL. TACK COAT
- 4

1 1/2" ITEM 448 A.C. SURFACE COURSE, TYPE 1,  
PG 64-22 (ALL VIRGIN MATERIAL)
- 5

1 1/2" ITEM 448 A.C. INTERMEDIATE COURSE,  
TYPE 1, PG 64-22 (MAXIMUM 25% R.A.P.)
- 6

APPLY CONSTRUCTION SEAL IMMEDIATELY  
AFTER SURFACE COURSE INSTALLATION
- 7

ITEM-SPECIAL LAWN RESTORATION,  
INCLUDING ITEM 653 4" TOPSOIL FURNISHED  
AND PLACED
- 8

ITEM 608 CONCRETE WALK INCLUDING ITEM  
310 GRANULAR SUBBASE AND ITEM 202 WALK  
REMOVED, AS DIRECTED
- 9

UNDERDRAIN REPLACEMENT,  
AS DIRECTED
- 10

TYPE 2 CURB, AS DIRECTED
- 11

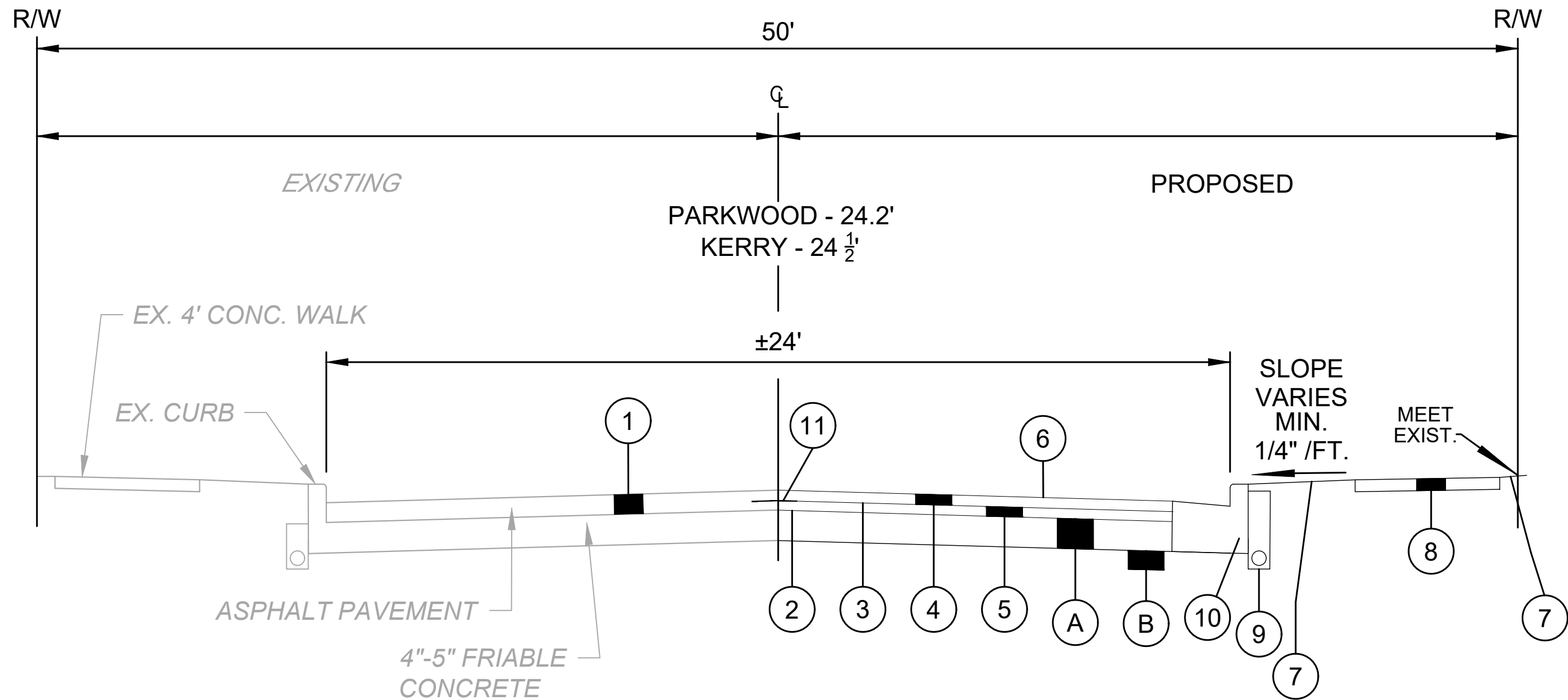
ITEM 872 VOID REDUCING ASPHALT  
MEMBRANE

NOTE: PAVEMENT PLANING/GRINDING SHALL INCLUDE THE  
CLEANUP/REMOVAL OF THIN/LOOSE SHEETS OF ASPHALT  
(IF ANY). NO ADDITIONAL PAYMENT SHALL BE MADE FOR  
THIS REMOVAL REGARDLESS OF THE TIME PERIOD  
BETWEEN GRINDING AND RESURFACING.

- A

ITEM 255 FULL DEPTH PAVEMENT REMOVAL  
AND RIGID REPLACEMENT, CLASS QC MS, T=8",  
AS PER PLAN, AS DIRECTED
- B

ITEM 204 EXCAVATION OF SUBGRADE AND  
EMBANKMENT WITH GRANULAR MATERIAL,  
CCS, AS DIRECTED



NOTE: REFER TO PAVEMENT CORE REPORT  
FOR CORING DETAILS AND LOCATIONS

KERRY LANE AND PARKWOOD DRIVE  
TYPICAL SECTION

UTILITIES - SYMBOLS LEDGEND:

EX:	PROP:	
		WATER MANHOLE - LID ONLY
		WATER VALVE W/TEXT
		WATER METER
		WATER HYDRANT, FIRE
		POLE - GENERAL
		POLE - LIGHT
		POLE - POWER / LIGHT
		POLE - POWER / TELEPHONE
		POLE - GUY ANCHOR
		ELECTRIC LIGHT - GROUND
		PIN - IRON
		STORM CLEAN-OUT
		CURB INLET - 2X3
		CURB INLET - 2X3 - ADJUSTED
		PIPE - IRON
		STORM MANHOLE - 48"
		CATCH BASIN - ROUND
		SANITARY MANHOLE - 48"
		GAS VALVE W/TEXT
		GAS TEST BOX

MISCELLANEOUS - SYMBOLS LEDGEND:

EX:	PROP:	
		BUSH
		TREE, DECIDUOUS
		TREE, EVERGREEN
		TREE, STUMP
		POST, SIGN
		ROCK, LARGE
		MISCELLANEOUS CLEAN-OUT
		MISCELLANEOUS PULL BOX
		SURVEY BENCHMARK

UTILITIES - LINE TYPE LEDGEND:

EX:		
		WATER SERVICE
		WALL - RETAINING
		FENCE - CHAIN LINK
		FENCE - WOOD
		MULCH BED
		GRAVITY SANITARY SEWER LINE
		SANITARY SERVICE
		GAS LINE
		BUSH LINE
		CHANNELIZING LINE
		SLOPE - TOP
		SLOPE - BREAKLINE
		ELECTRIC SERVICE - OH
		PROPERTY LINE
		RIGHT-OF-WAY
		STORM DOUBLE LINE
		STORM LINE
		TRAFFIC LOOP
		WATER LINE
		WATER SERVICE
		DRIVE
		CURB
		ROAD
		WALK

PROPOSED:

	X" WAT	WATER LINE
	WAT	WATER SERVICE
		DRIVE
		CURB
		ROAD
		WALK



NO	REVISION	DATE

CITY OF WICKLIFFE

PARKWOOD DRIVE & KERRY  
LANE WATERMAIN AND  
PAVEMENT IMPROVEMENTS

LAKE COUNTY, OHIO

ISSUED FOR:	DRAFT
ISSUE DATE:	8/25/2025
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	CKW
CHECKED BY:	PJF

TYPICAL SECTIONS  
AND  
LEGEND

PROJECT NO.	32252
DISCIPLINE	CIVIL
SHEET NAME	Typical Sections
SHEET	OF
11	18



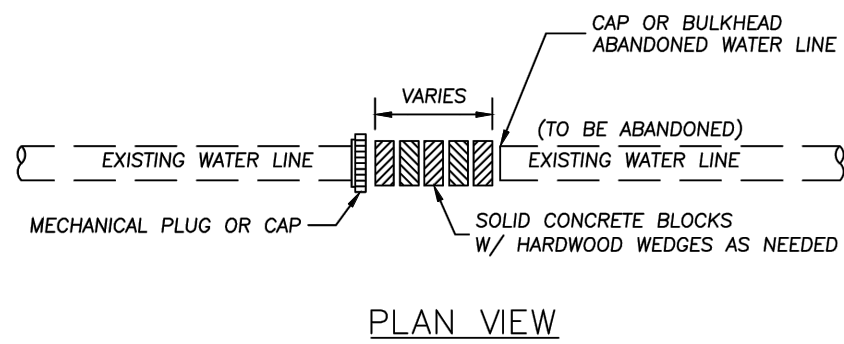


FIG 2.5.2

LAKE COUNTY  
DEPARTMENT OF UTILITIES  
SOLID BLOCKING DETAIL FOR  
ABANDONED WATERLINES  
DATE: 5-16 DRAWN BY: DDB SCALE: NONE

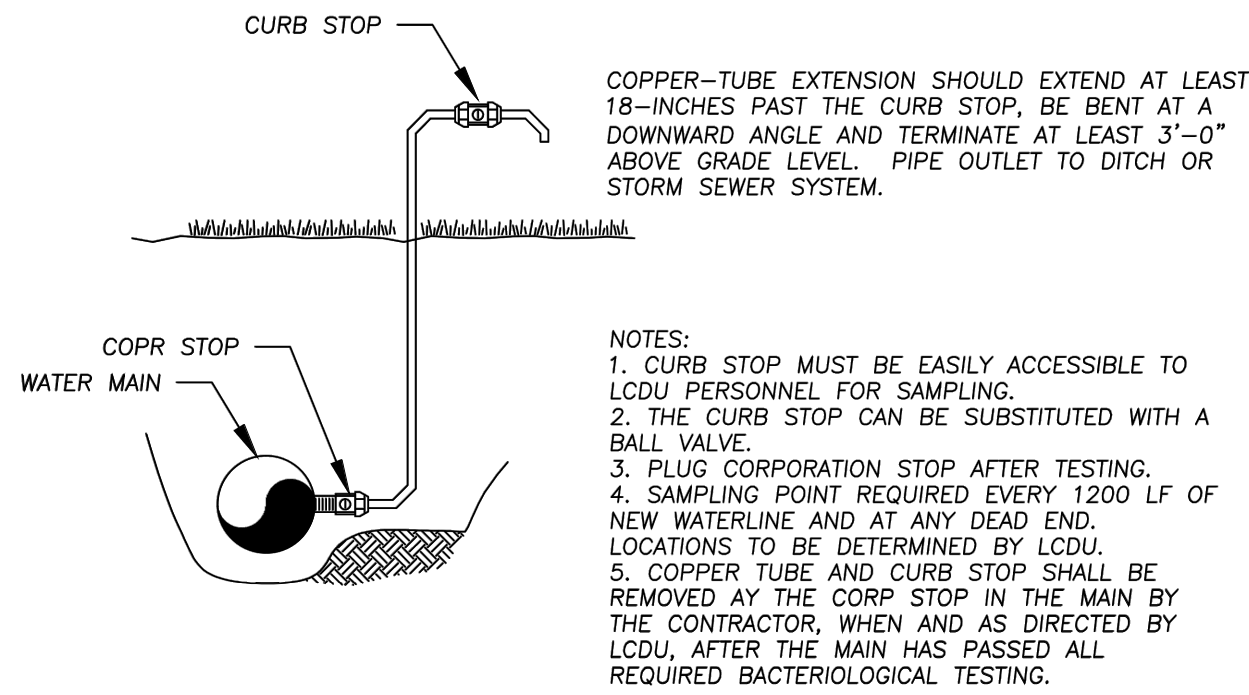


FIG 2.14.1

LAKE COUNTY  
DEPARTMENT OF UTILITIES  
BACTERIA SAMPLING DETAIL  
DATE: 6-16 DRAWN BY: DDB SCALE: NONE

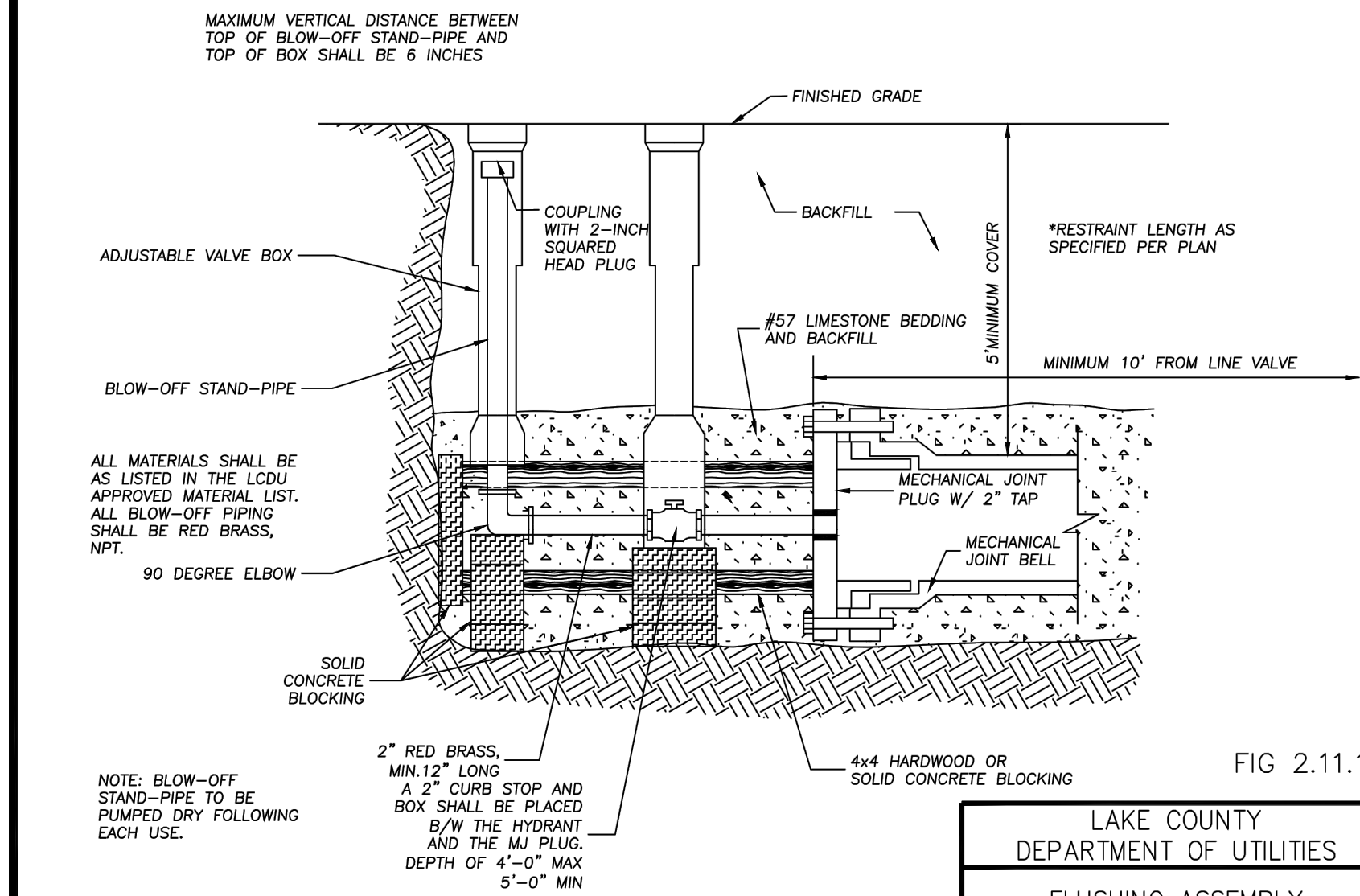


FIG 2.11.1

LAKE COUNTY  
DEPARTMENT OF UTILITIES  
FLUSHING ASSEMBLY  
DATE: 5-16 DRAWN BY: DDB SCALE: NONE

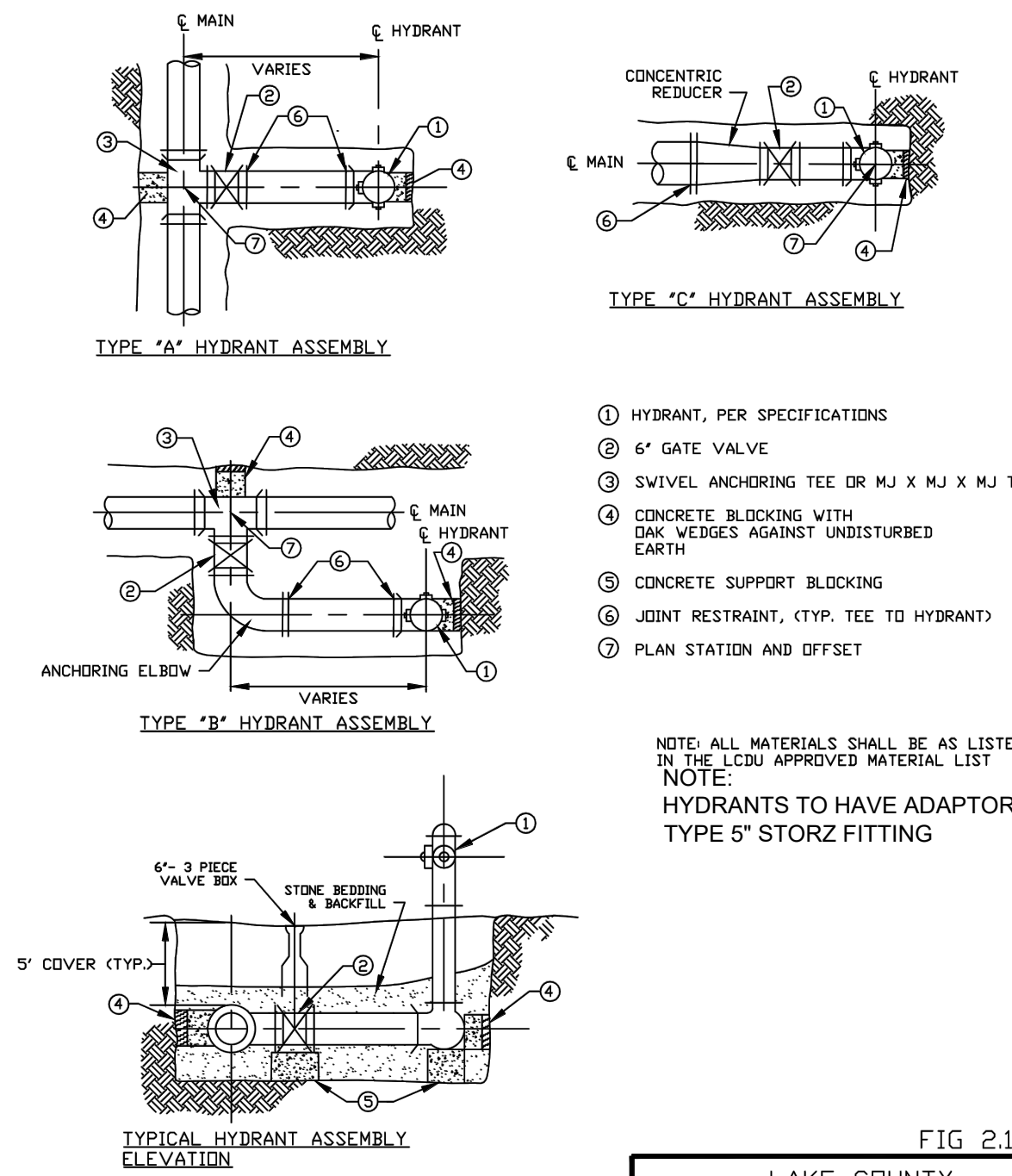


FIG 2.12.1

LAKE COUNTY  
DEPARTMENT OF UTILITIES  
HYDRANT DETAILS  
DATE: 5-16 DRAWN BY: DDB SCALE: NONE

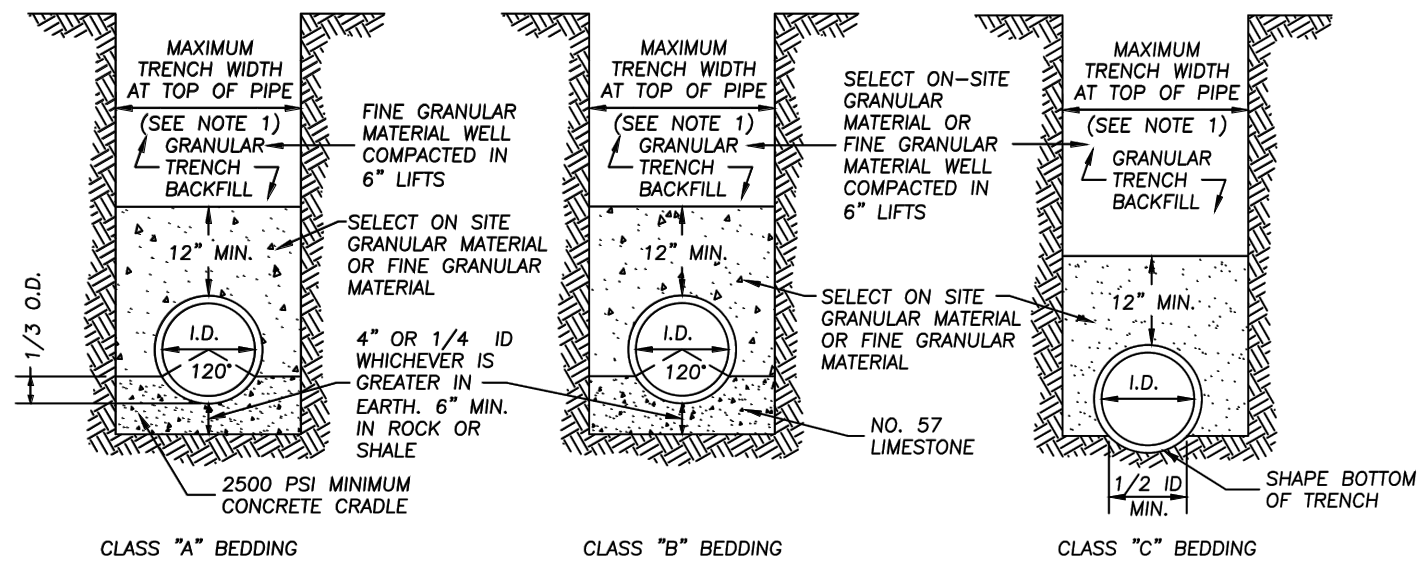


FIG 2.22.1

FOR WATER ONLY

LAKE COUNTY  
DEPARTMENT OF UTILITIES  
TRENCH AND BEDDING DETAILS  
DATE: 6-16 DRAWN BY: DDB SCALE: NONE

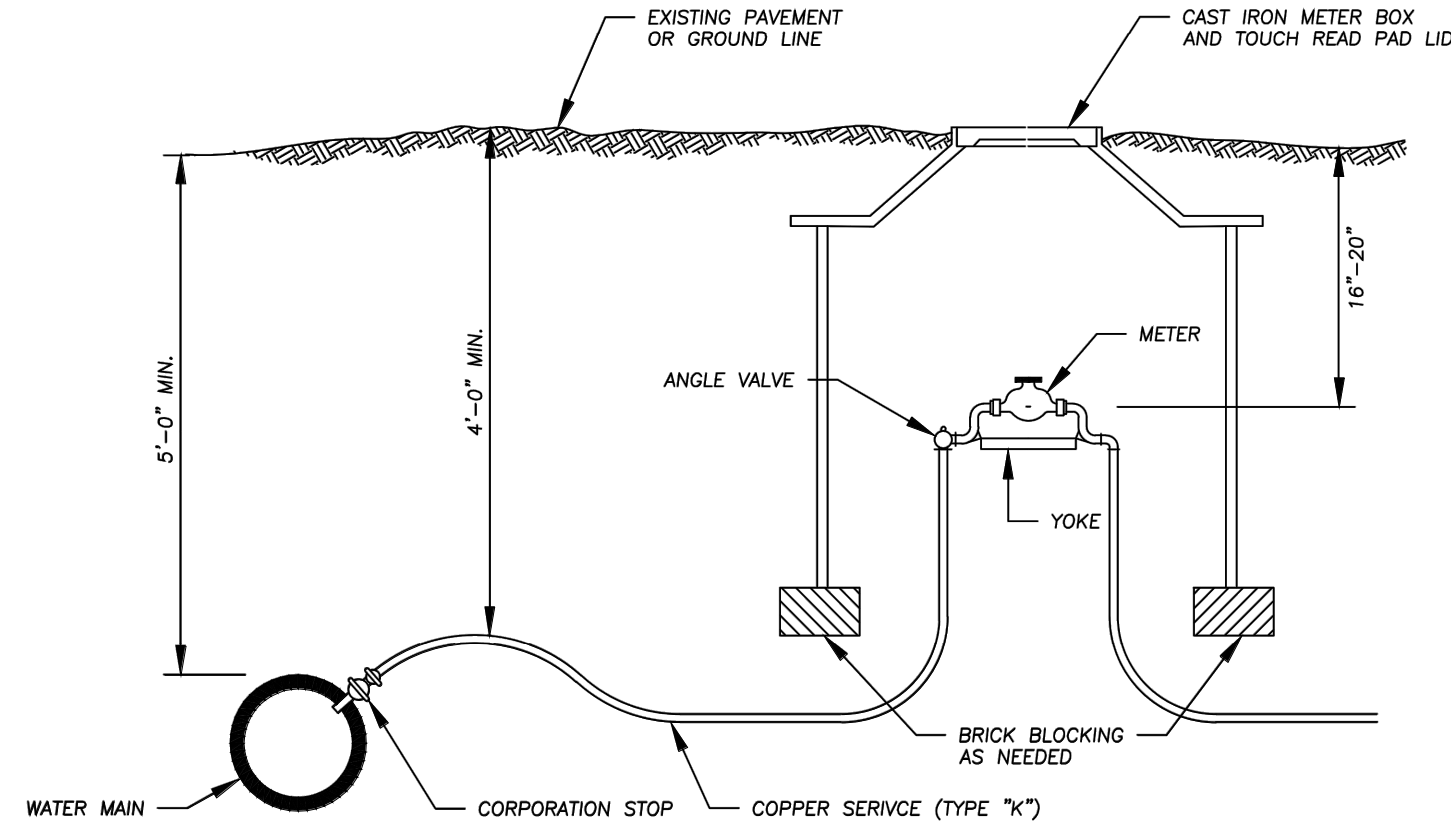
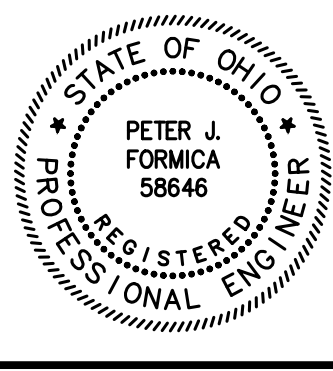


FIG 2.25.1

LAKE COUNTY  
DEPARTMENT OF UTILITIES  
SERVICE TIE-IN FOR OUTSIDE  
METER LESS THAN 2" DIA.  
DATE: 9-17 DRAWN BY: DDB SCALE: NONE



verdantas

NO	REVISION	DATE

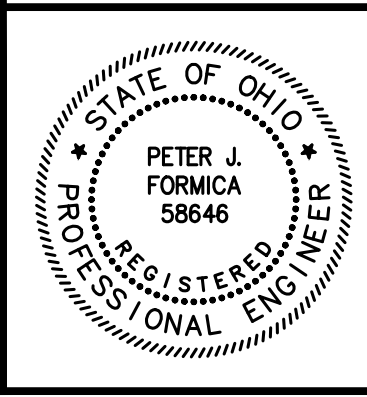
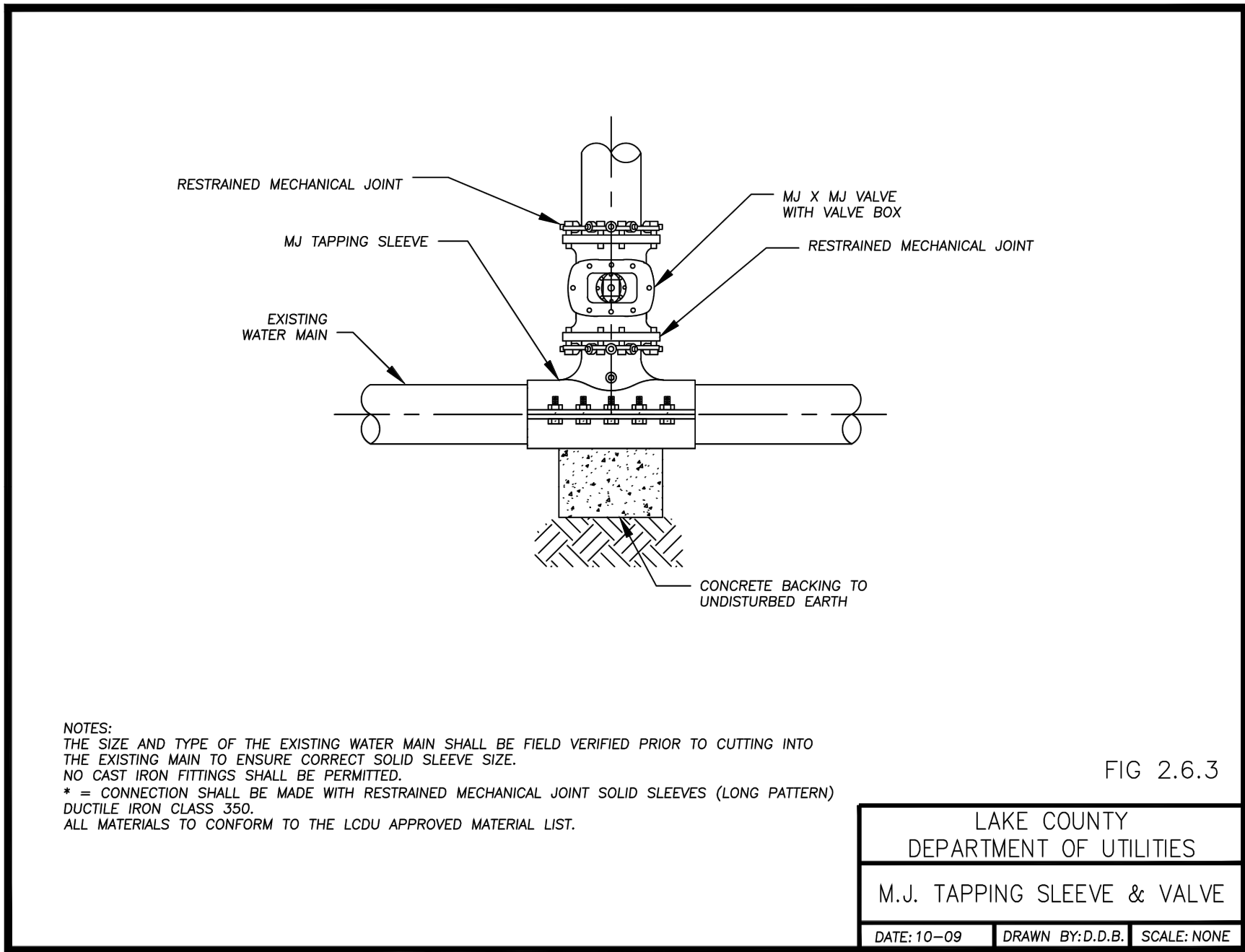
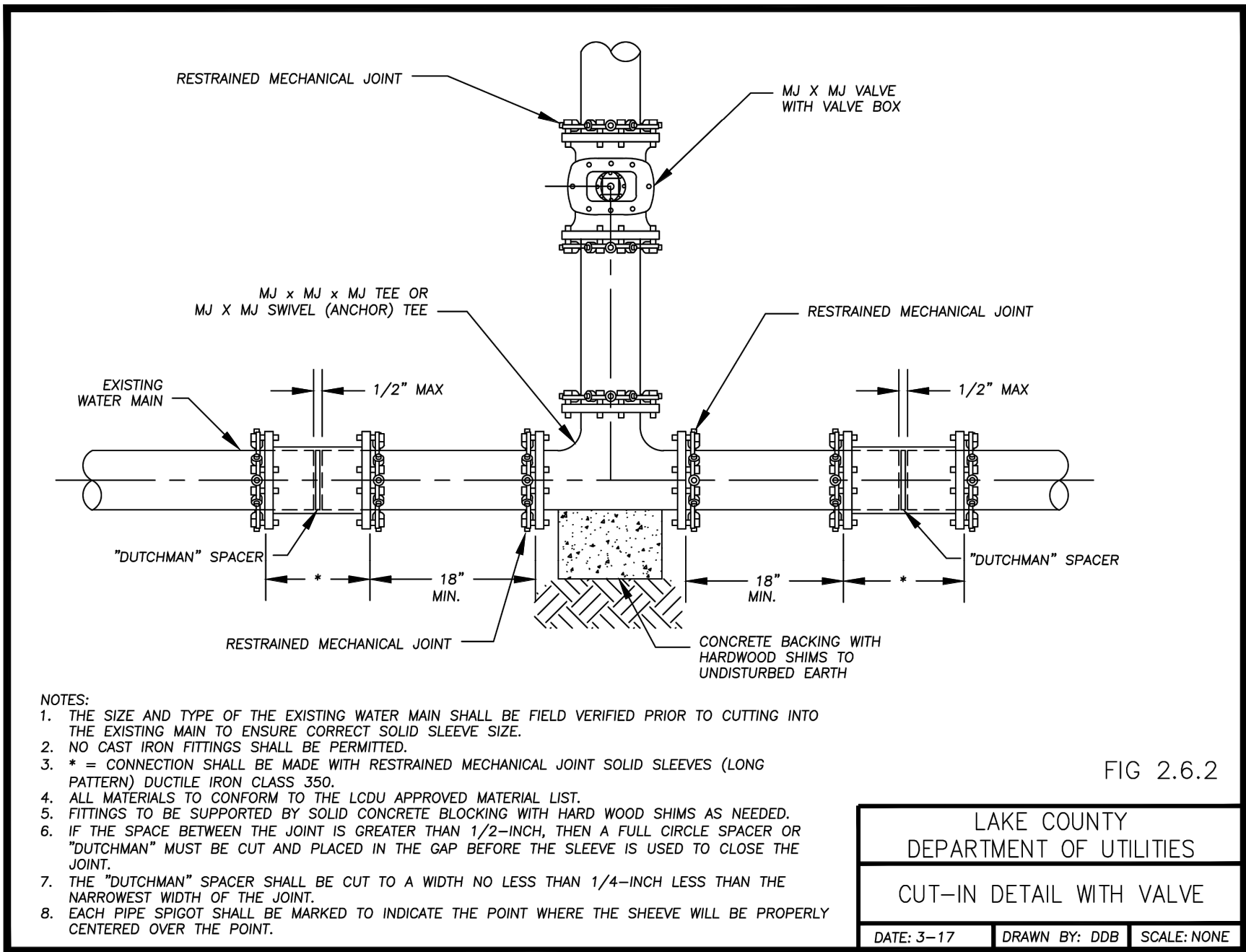
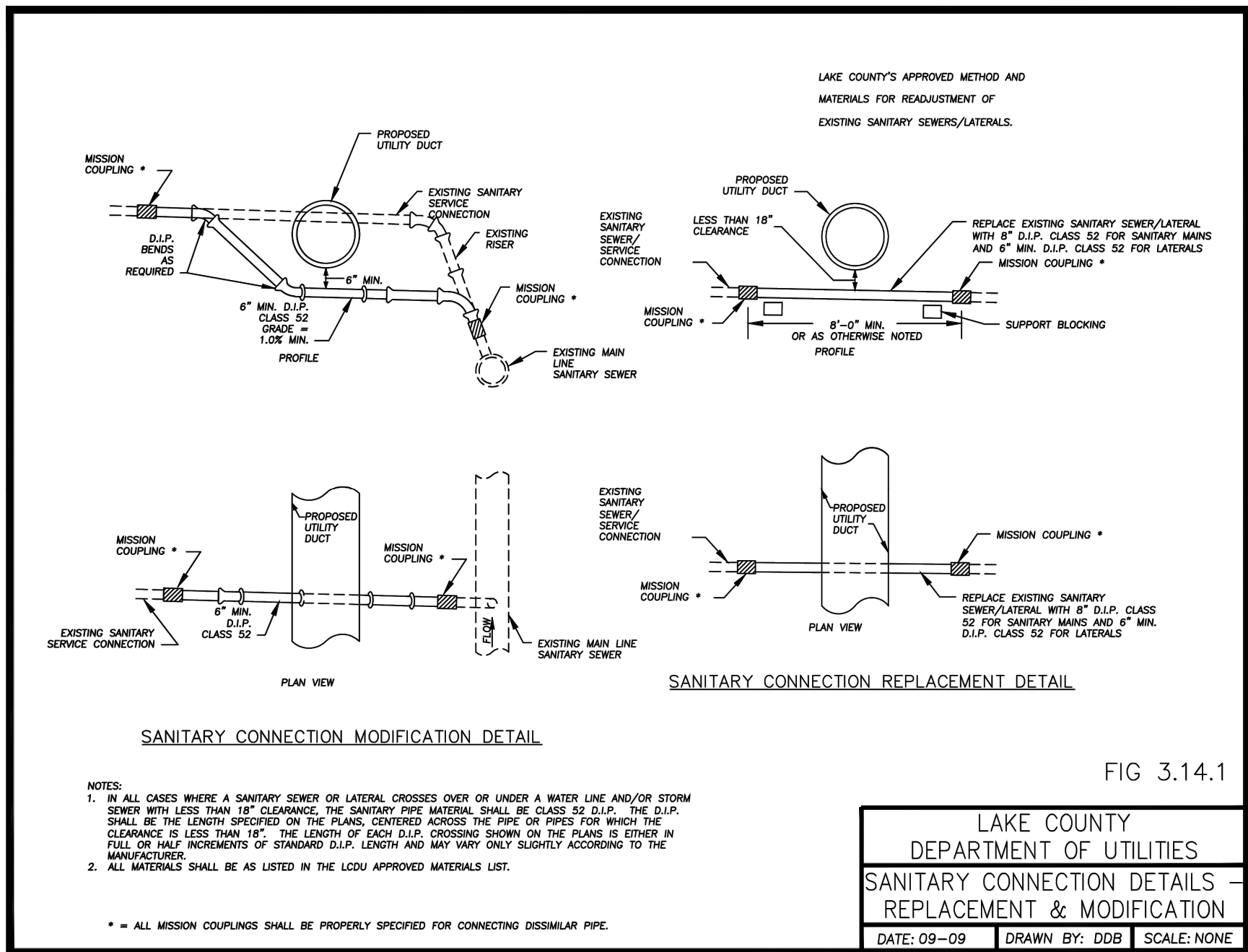
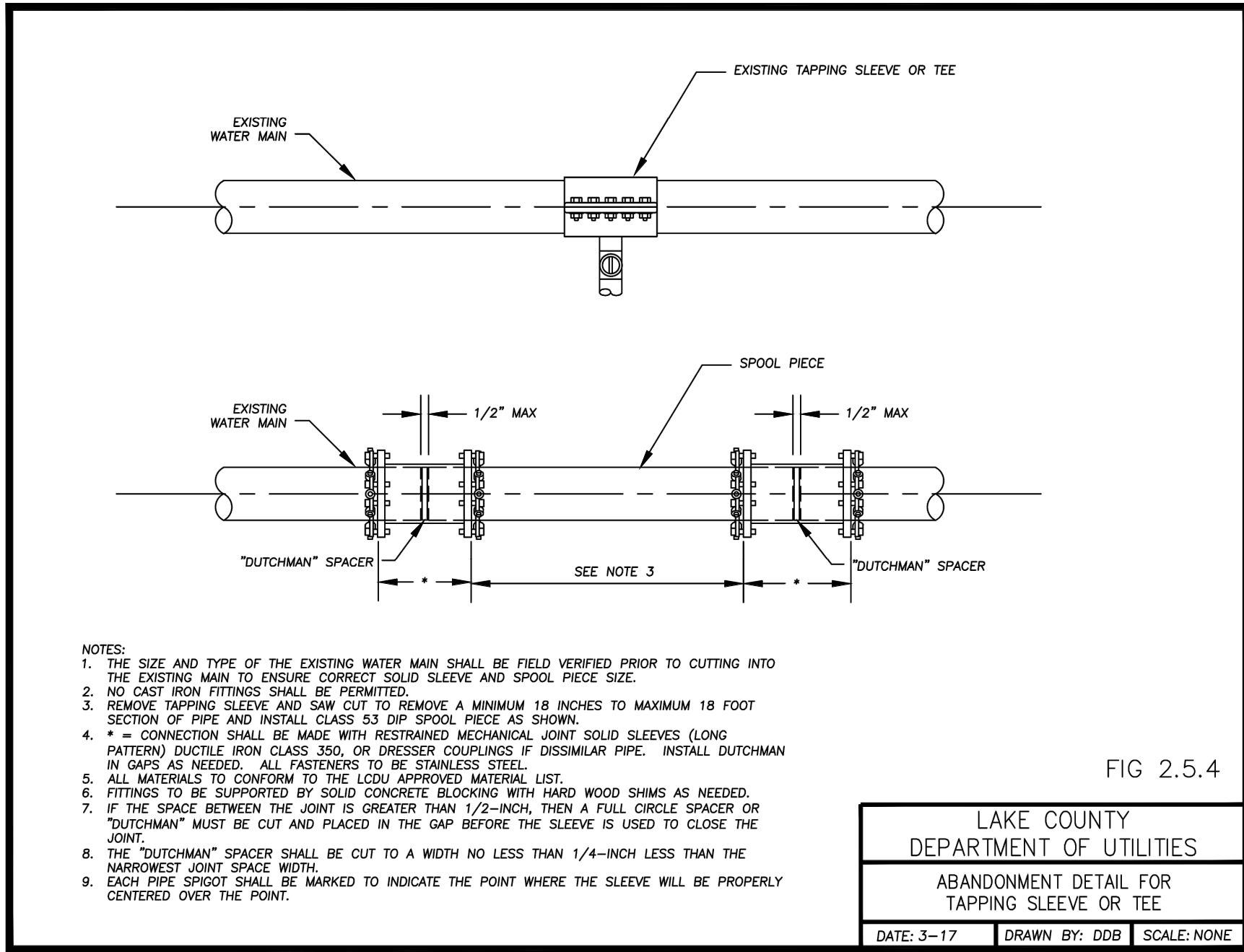
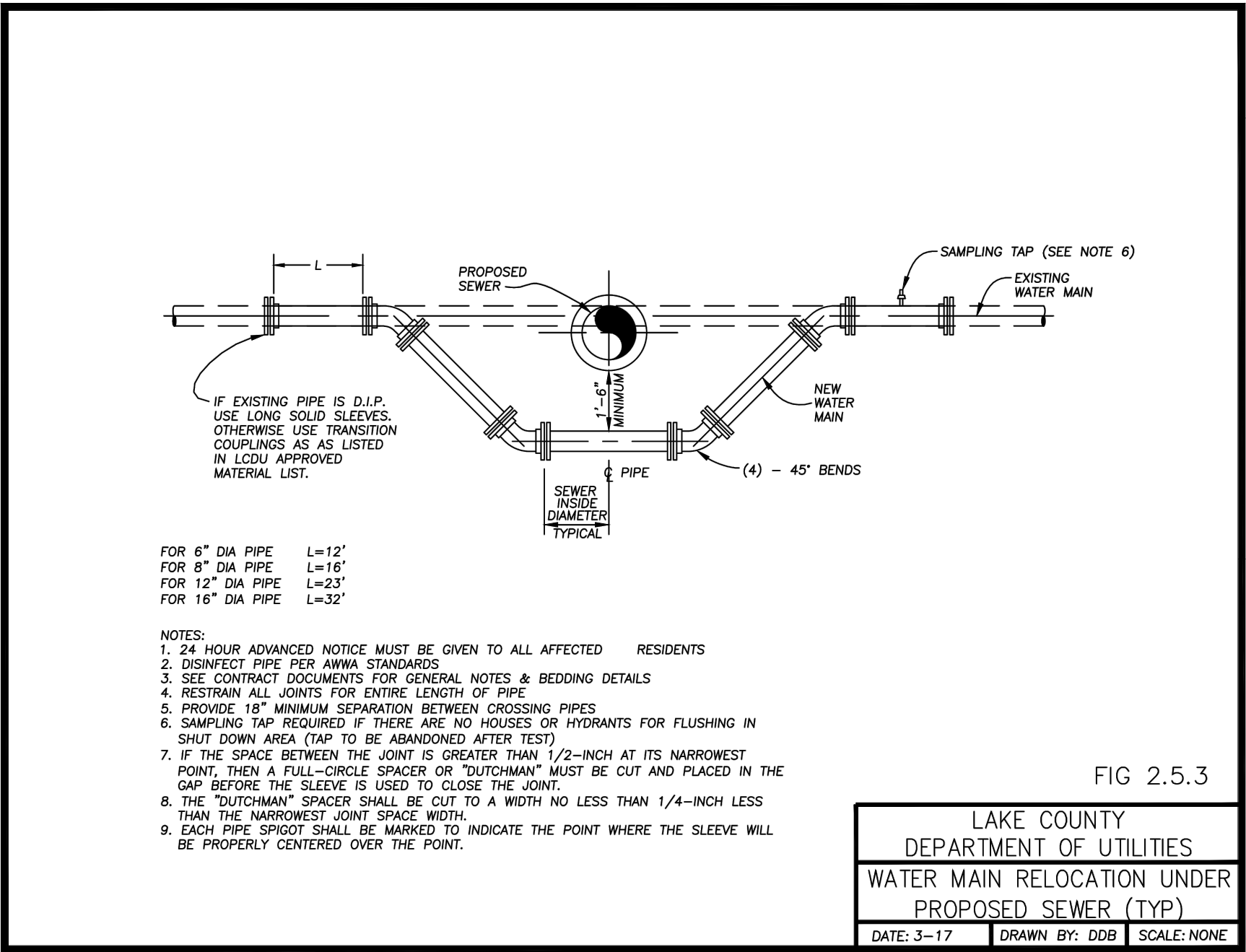
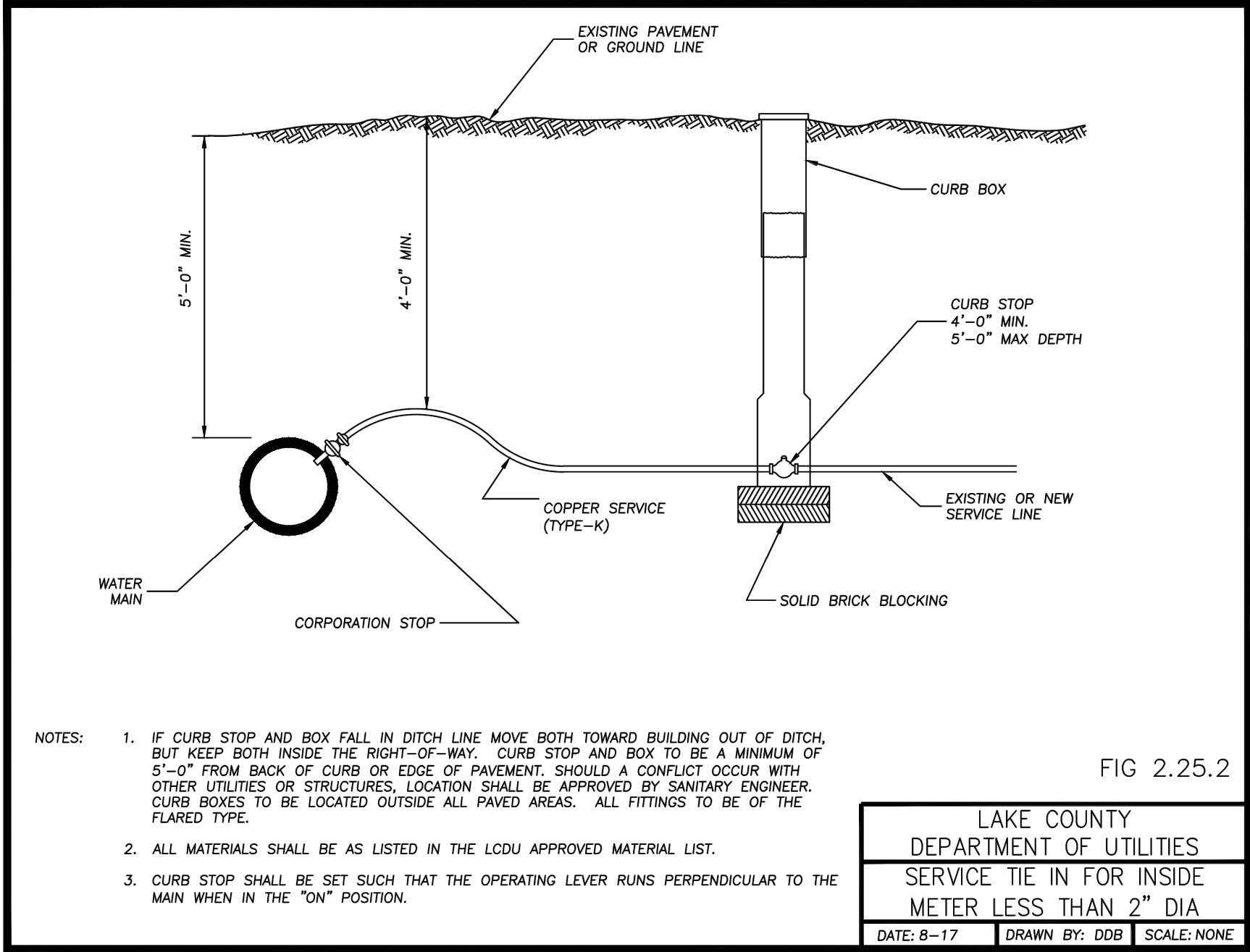
CITY OF WICKLIFFE  
**PARKWOOD DRIVE & KERRY  
LANE WATERMAIN AND  
PAVEMENT IMPROVEMENTS**  
LAKE COUNTY, OHIO

ISSUED FOR: DRAFT  
ISSUE DATE: 8/25/2025  
SCALE: AS SHOWN  
DESIGNED BY: PJF  
DRAWN BY: CKW  
CHECKED BY: PJF

LCDU DETAILS 1

PROJECT NO.	32252
DISCIPLINE	CIVIL
SHEET NAME	LCDU Details 1
SHEET	OF
12	18





NO	REVISION	DATE

CITY OF WICKLIFFE

**PARKWOOD DRIVE & KERRY  
LANE WATERMAIN AND  
PAVEMENT IMPROVEMENTS**

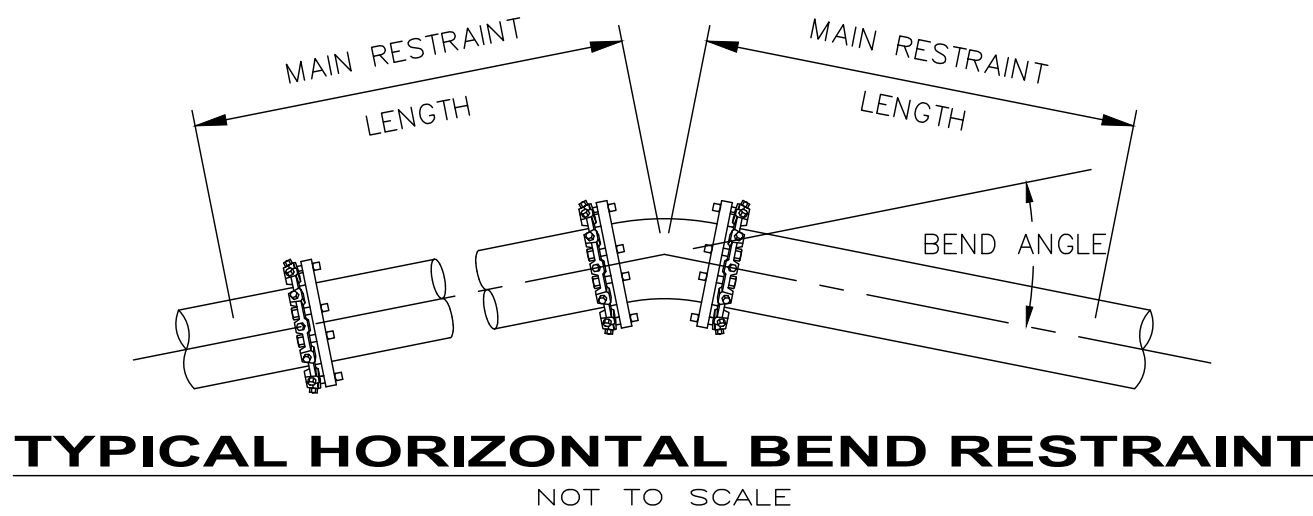
LAKE COUNTY, OHIO

ISSUED FOR:	DRAFT
ISSUE DATE:	8/25/2025
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	CKW
CHECKED BY:	PJF

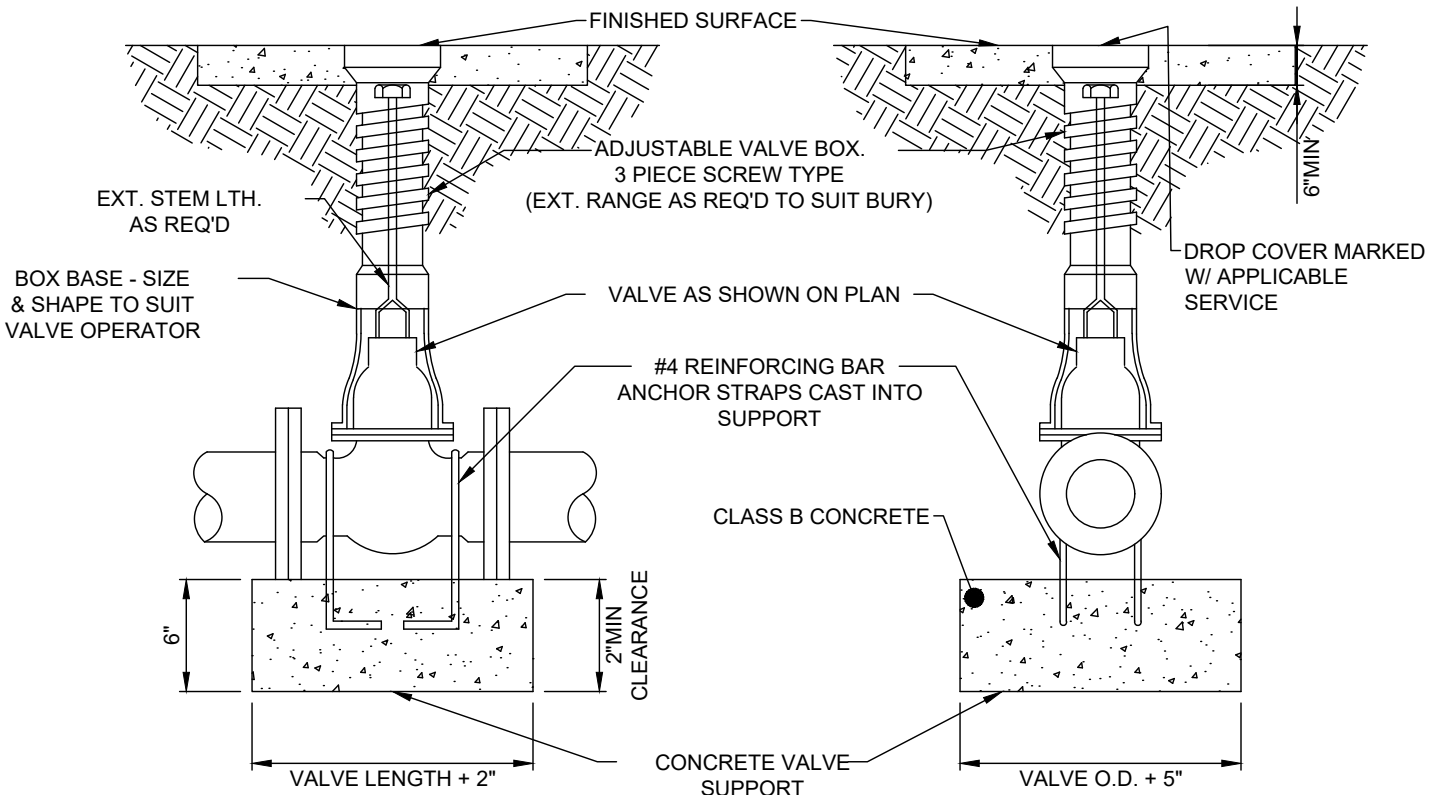
**LCDU DETAILS 2**

PROJECT NO.	32252
DISCIPLINE	CIVIL
SHEET NAME	DET-2
SHEET	OF
13	18

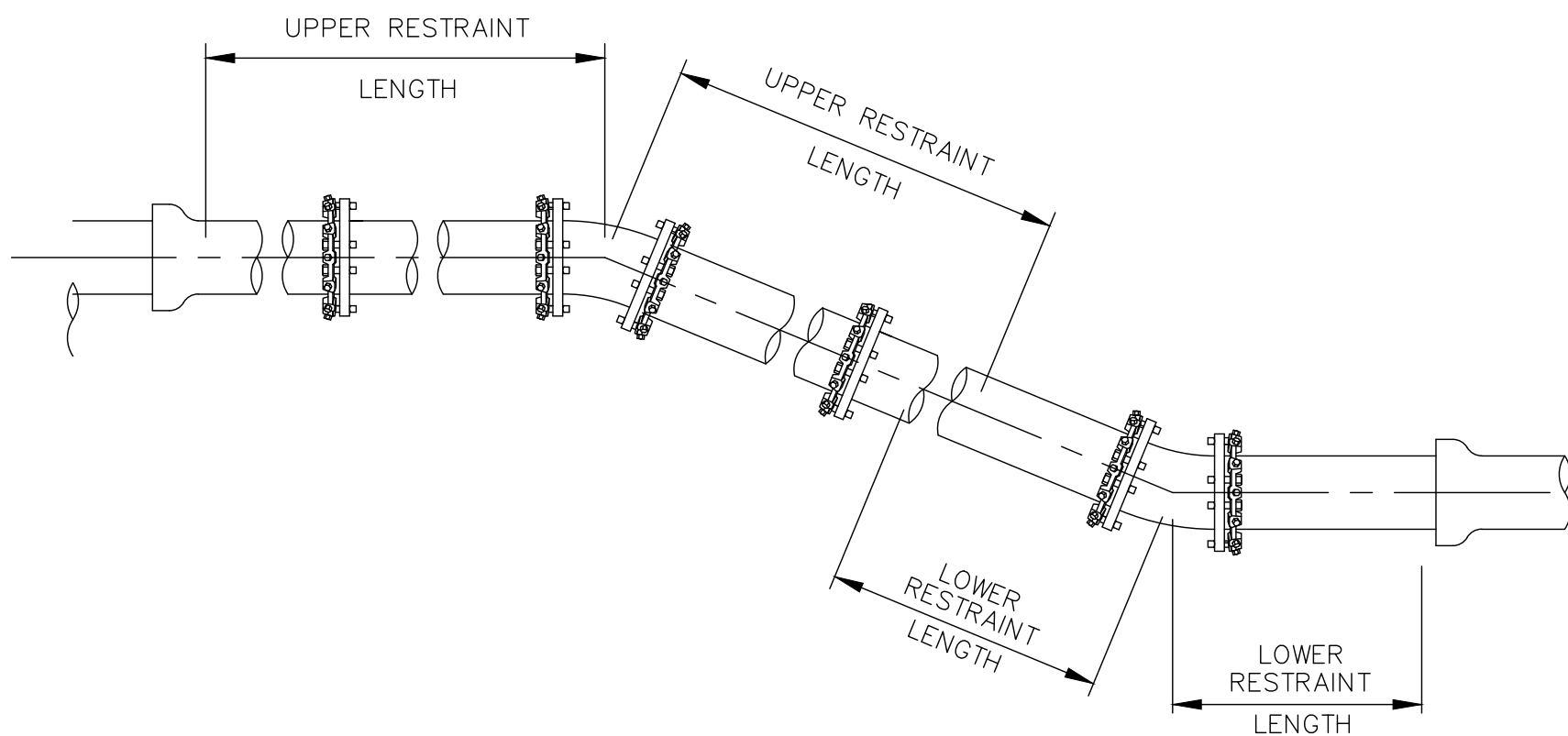




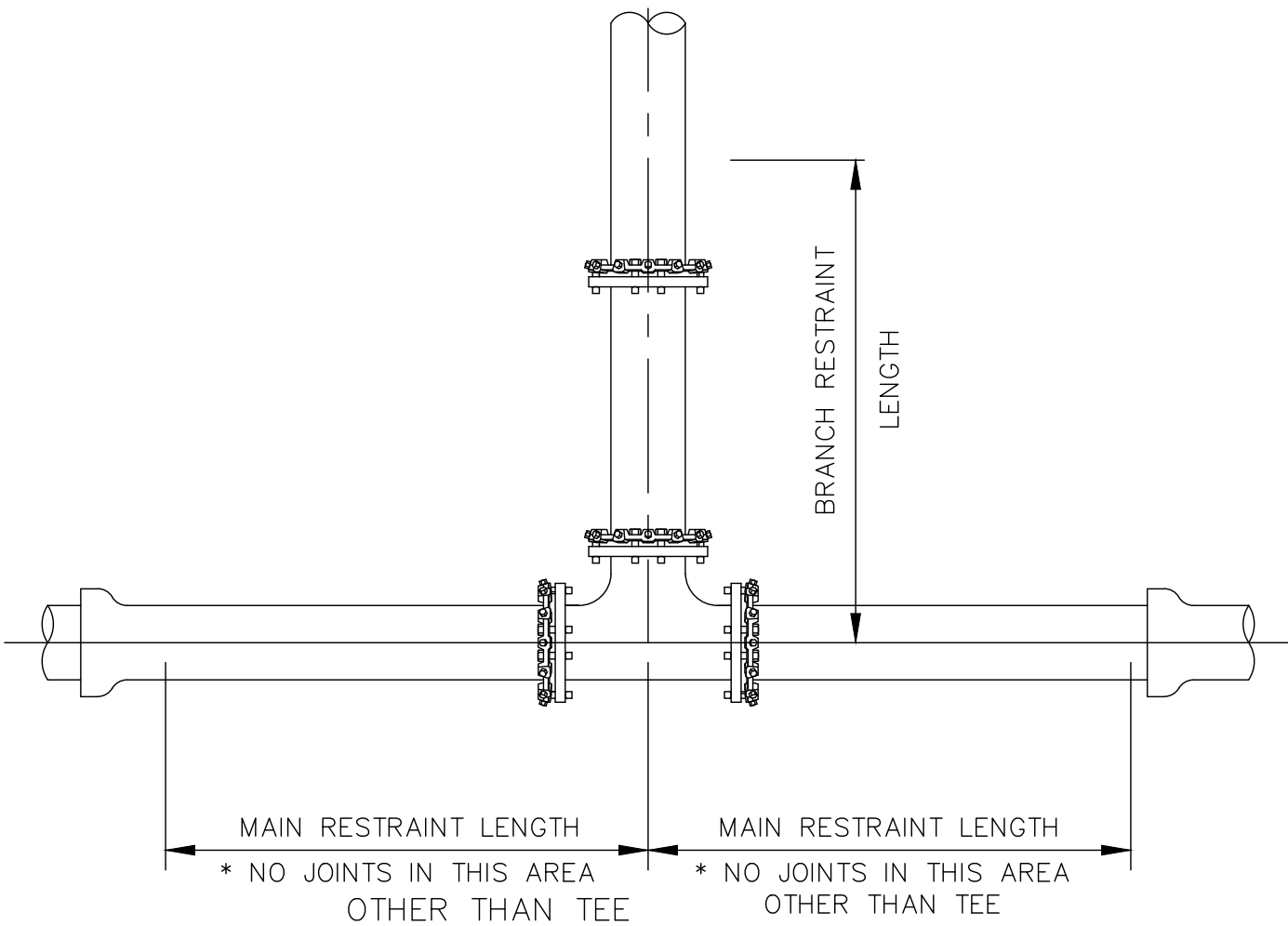
THRUST RESTRAINT TABLE FOR STANDARD FITTINGS			
FITTING	SIZE	MINIMUM MAIN RESTRAINT LENGTH	MINIMUM BRANCH RESTRAINT LENGTH
HORIZONTAL FITTINGS			
45° BEND	8"	11'	---
22.5° BEND	8"	6'	---
DEAD END	8"	40'	---
VERTICAL FITTINGS		UPPER	LOWER
45°	8"	26'	11'
22.5°	8"	11'	4'



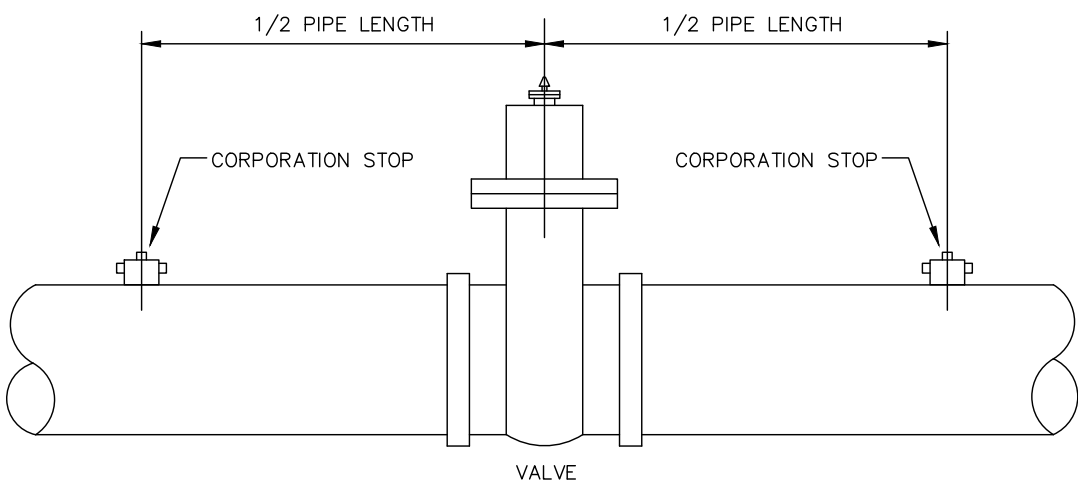
**TYPICAL VALVE AND VALVE BOX SETTING**  
NOT TO SCALE



**TYPICAL VERTICAL BEND RESTRAINT**  
NOT TO SCALE

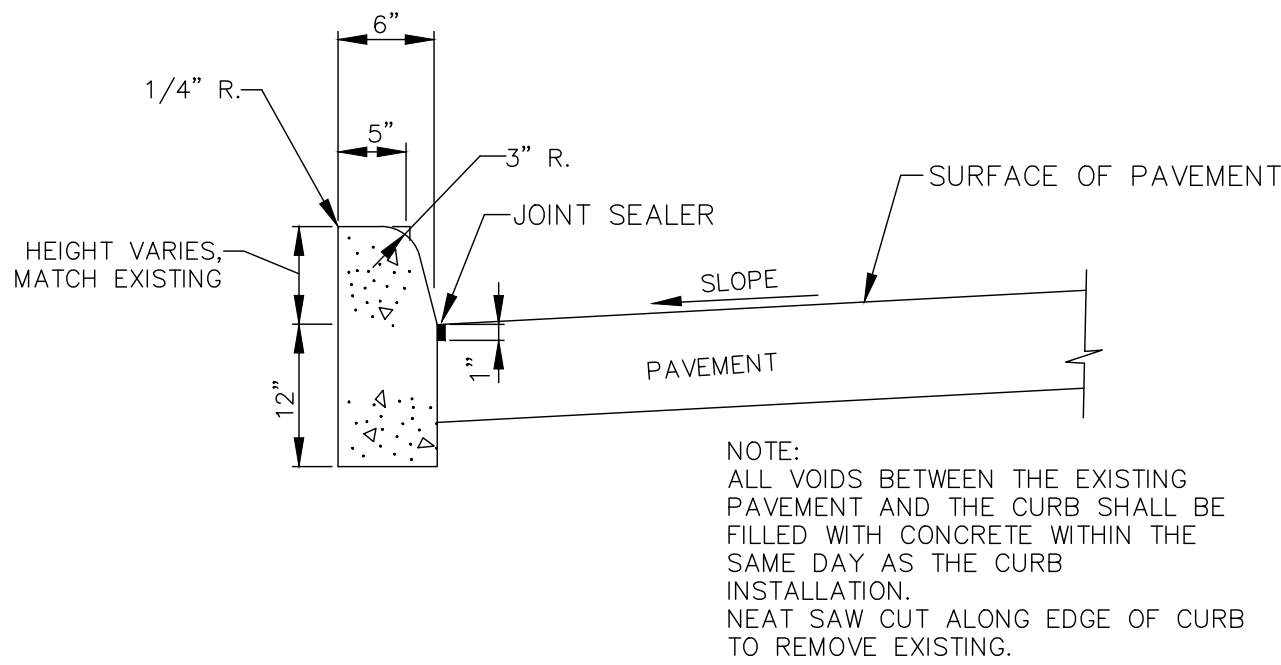


**TYPICAL HORIZONTAL TEE RESTRAINT**  
NOT TO SCALE

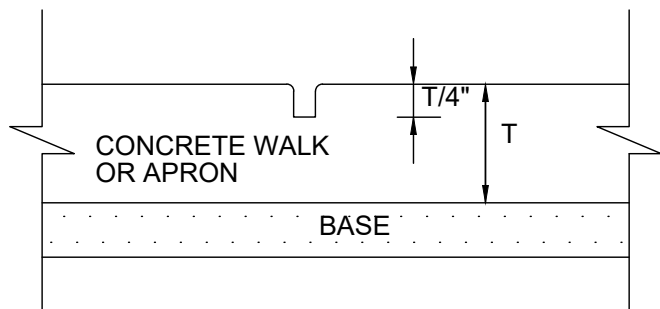


**STERILIZATION & TESTING  
CONNECTIONS AT VALVES**

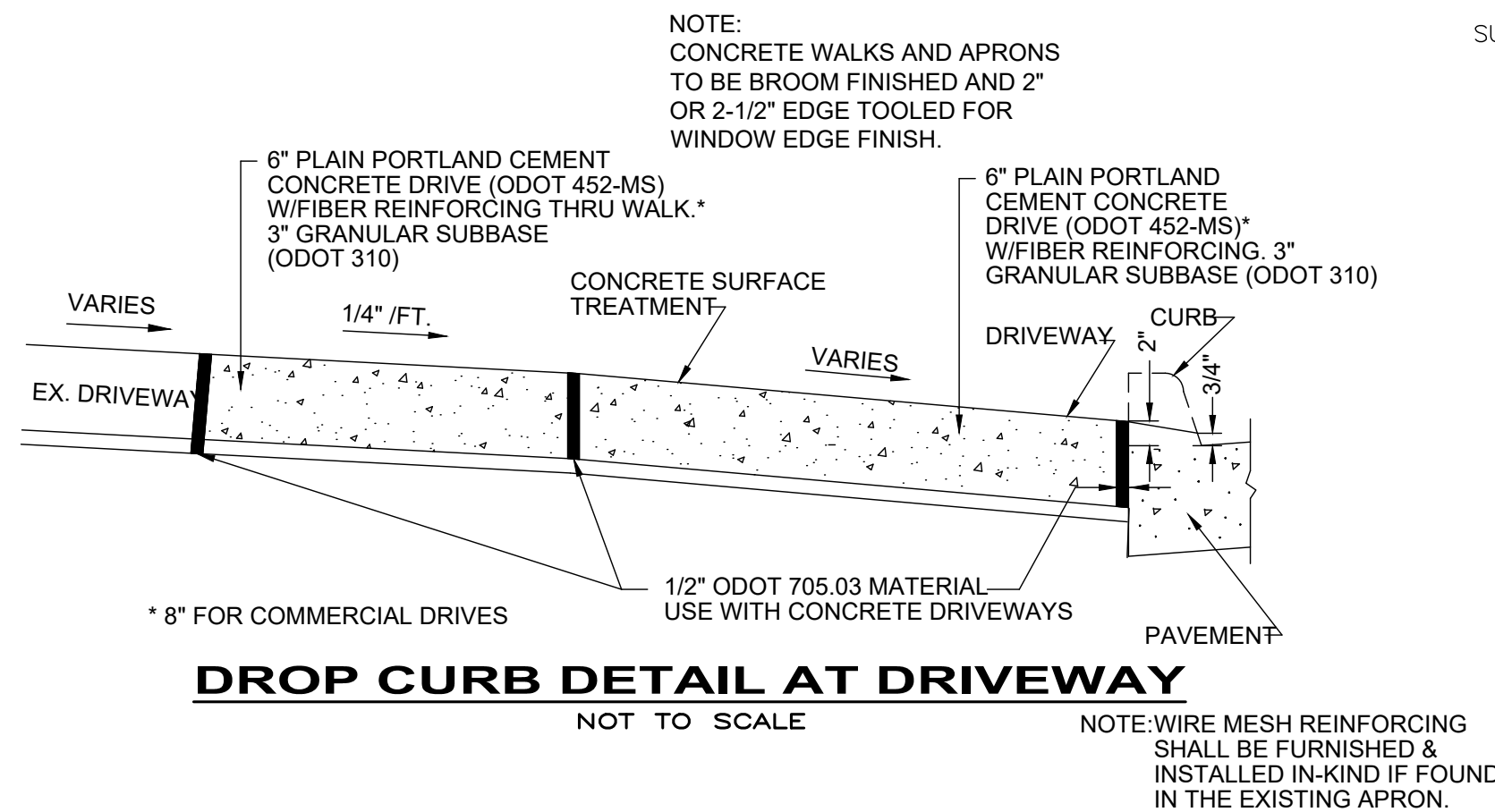




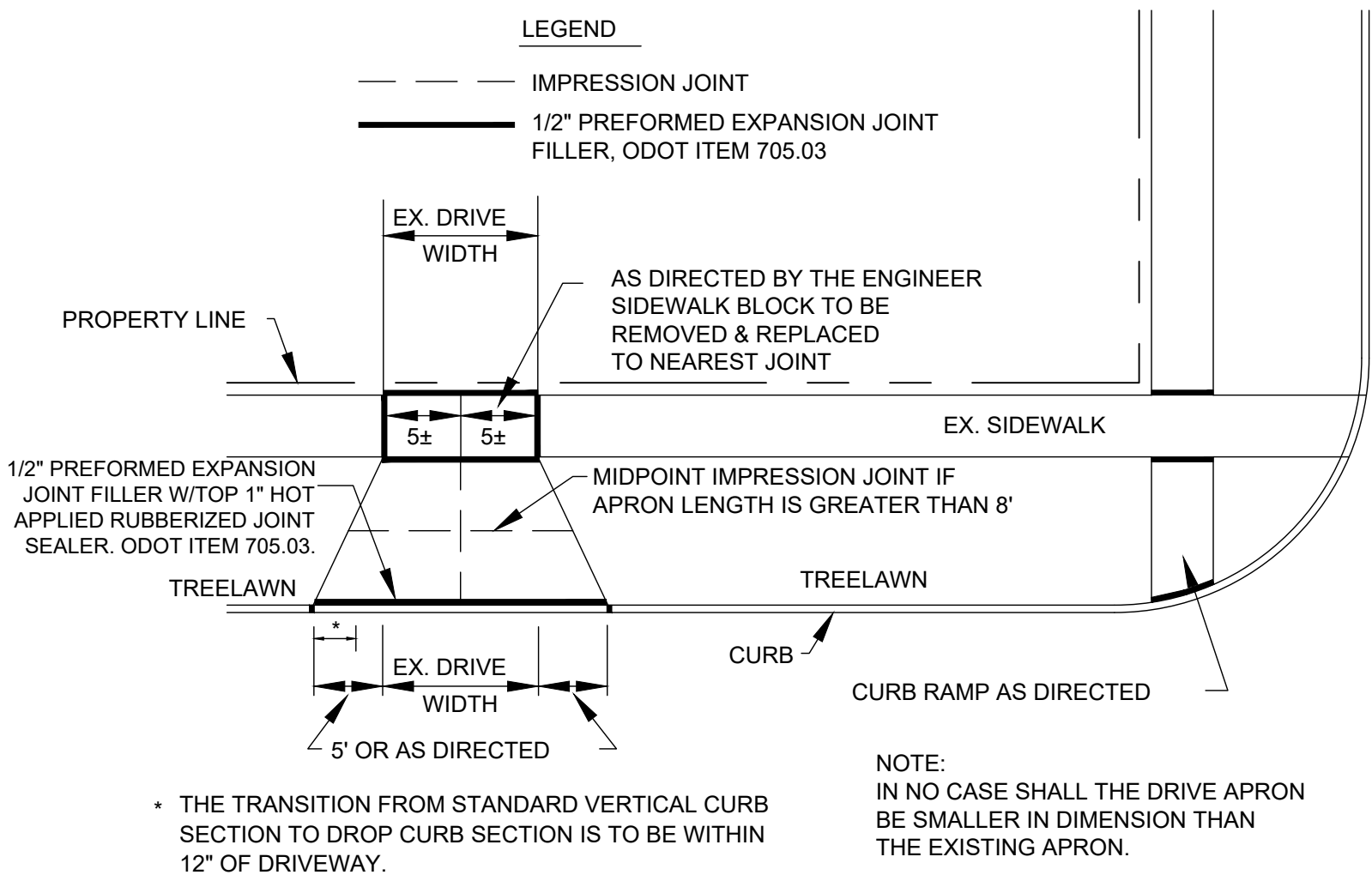
**CURB, TYPE 6  
(VERTICAL CURB)**



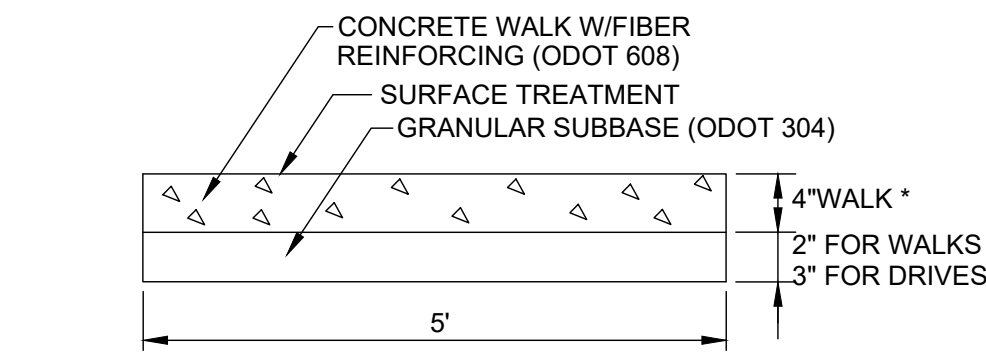
**IMPRESSION JOINT FORMED**



**DROP CURB DETAIL AT DRIVEWAY**



**DRIVEWAY APPROACH DETAIL**

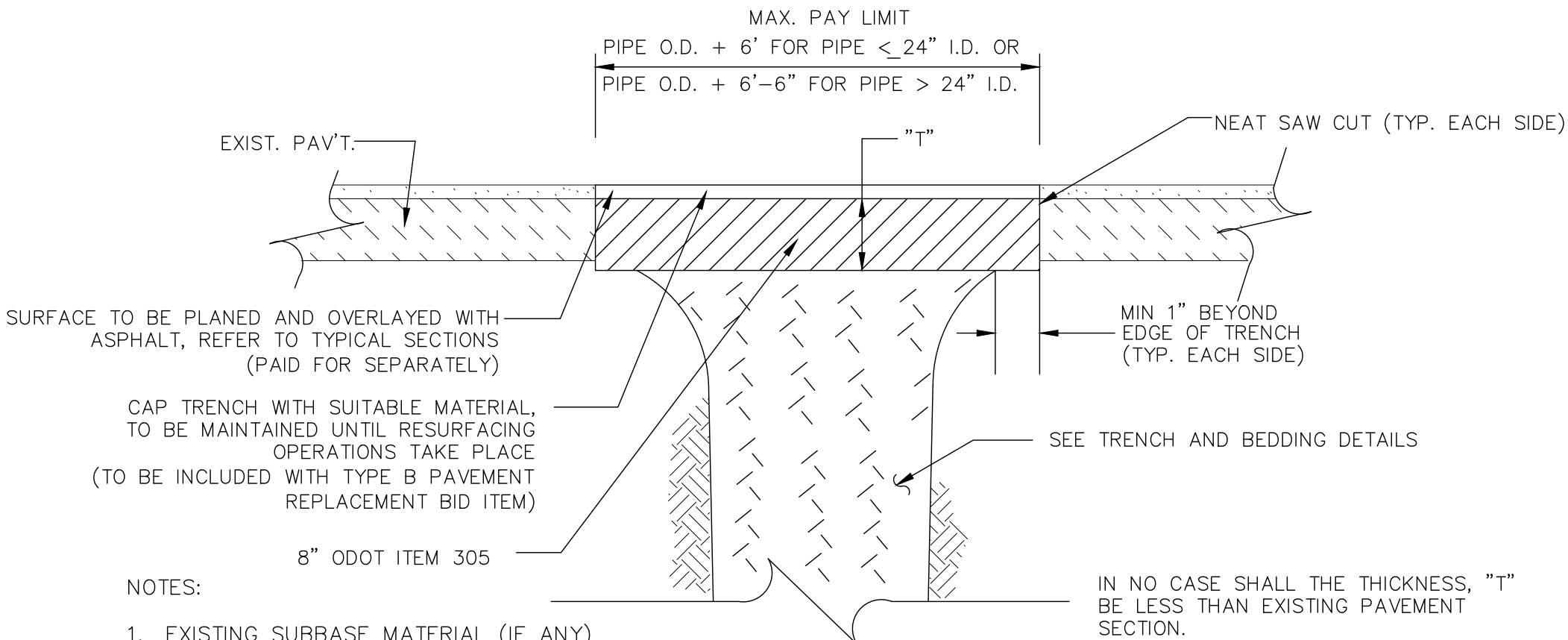


NOTE: CONCRETE WALKS AND APRONS TO BE BROOM FINISHED AND 2" OR 2-1/2" EDGE TOOLED FOR WINDOW EDGE FINISH.

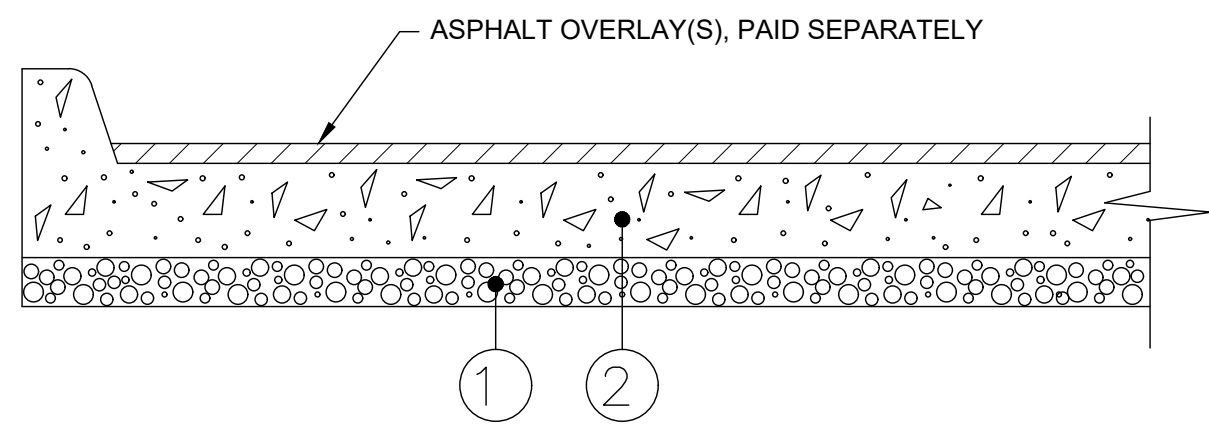
\*WALK WITHIN DRIVE APRON LIMITS SHALL BE THE SAME THICKNESS AS THE DRIVE APRON (6" MIN.) AND PAID FOR SEPARATELY.

- 8" FOR COMMERCIAL DRIVES  
- 6" FOR RESIDENTIAL DRIVES

**CONCRETE WALK DETAIL**

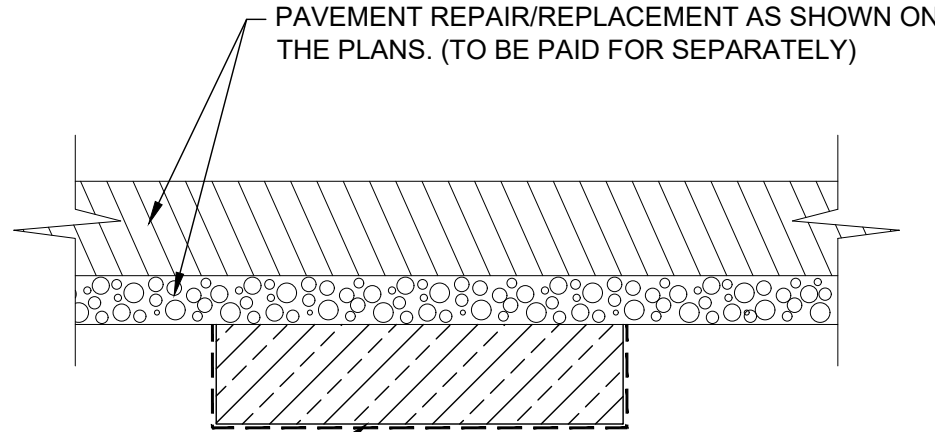


**TYPE "B" PAVEMENT REPLACEMENT  
(ASPHALT OVER CONCRETE, MODIFIED)**



- 1 3" ODOT ITEM 304 COMPACTED LIMESTONE AGGREGATE BASE
- 2 8" MIN. ODOT ITEM 255 INCLUDING INTEGRAL CURB, DOWEL/HOOK BOLT INSTALLATION.

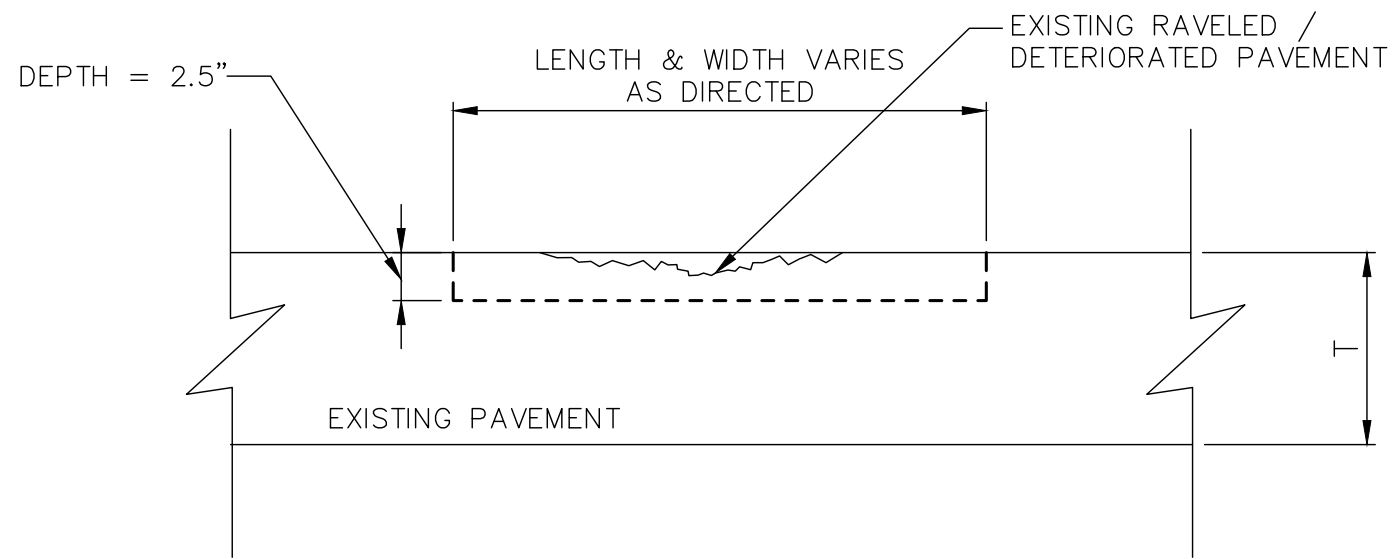
**FULL DEPTH PAVEMENT REMOVAL  
AND RIGID REPLACEMENT DETAIL  
(ITEM 255)**



COMPACTED ODOT 304 STONE AND GEOTEXTILE FABRIC PER ODOT 712.09, TYPE D. DEPTH OF UNDERCUT AND AREA SHALL BE AS DIRECTED BY THE ENGINEER IN ORDER TO REPLACE UNSTABLE MATERIAL.

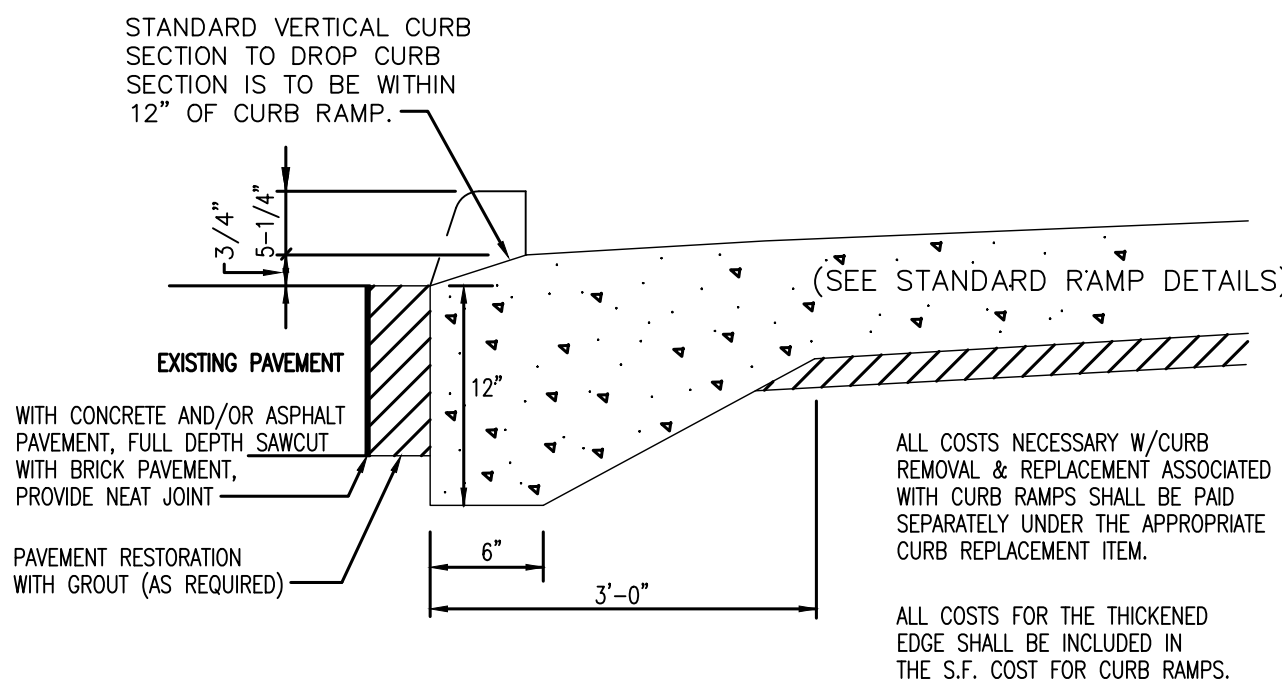
**ADDITIONAL SUBGRADE  
REPLACEMENT DETAIL  
(ITEM 304)**

NOTE: ITEM SHALL BE USED AS DIRECTED

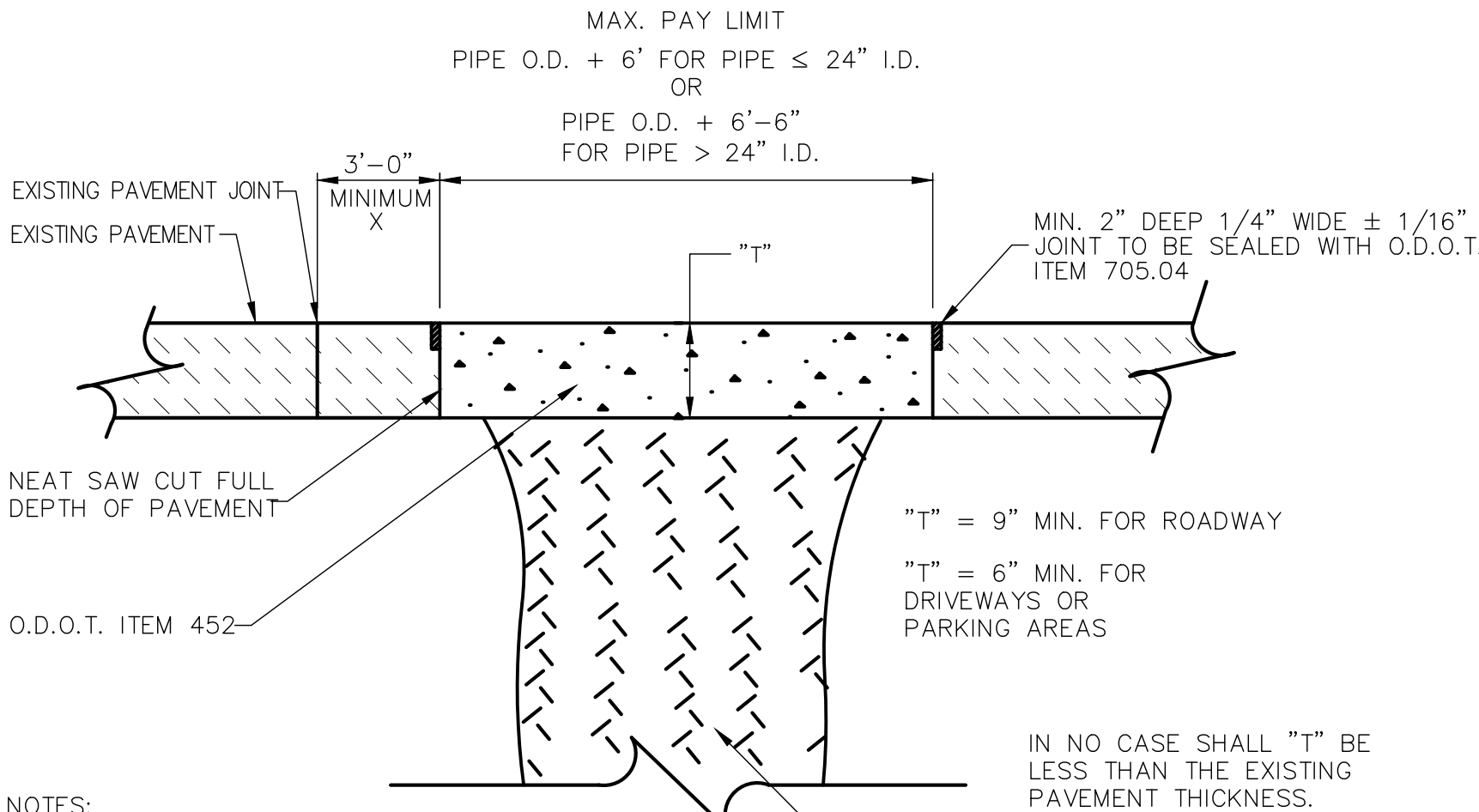


NOTE: ALL LOOSE AND DETERIORATED MATERIAL SHALL BE MILLED OUT UNTIL STABLE PAVEMENT IS FOUND. THE RESULTING EDGE SHALL BE REASONABLY VERTICAL AND SQUARE TO THE BOTTOM AND SHALL BE TACK COATED PRIOR TO THE PLACEMENT AND COMPACTION OF ODOT ASPHALT CONCRETE SURFACE COURSE, TYPE I, (448), PG64-22

**PARTIAL DEPTH PAVEMENT REPAIR  
(ITEM 251)**



**DROP CURB DETAIL  
(CURB RAMP)**



- NOTES:
1. EXISTING SUBBASE MATERIAL (IF ANY) SHALL BE REPLACED, AS DIRECTED BY ENGINEER.
  2. REPLACEMENT SHALL BE REINFORCED AS PER O.D.O.T. ITEM 709.10 OR 709.12 IF EXISTING PAVEMENT IS REINFORCED.
  3. 5/8"Ø HOOKBOLT @ 30" O.C. MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
- X WHERE WIDTH IS LESS THAN 3'-0" OR EXISTING PAVEMENT IS DETERIORATED, THE CONTRACTOR SHALL REPLACE ADDITIONAL PAVEMENT AS DIRECTED BY THE ENGINEER. PAYMENT FOR ADDITIONAL PAVEMENT REPLACEMENT AS DIRECTED BY THE ENGINEER SHALL BE AT THE SAME UNIT PRICE BID.

**TYPE A PAVEMENT REPLACEMENT  
(CONCRETE)**



**verdantas**

NO	REVISION	DATE

**CITY OF WICKLIFFE**

**PARKWOOD DRIVE & KERRY  
LANE WATERMAIN AND  
PAVEMENT IMPROVEMENTS**

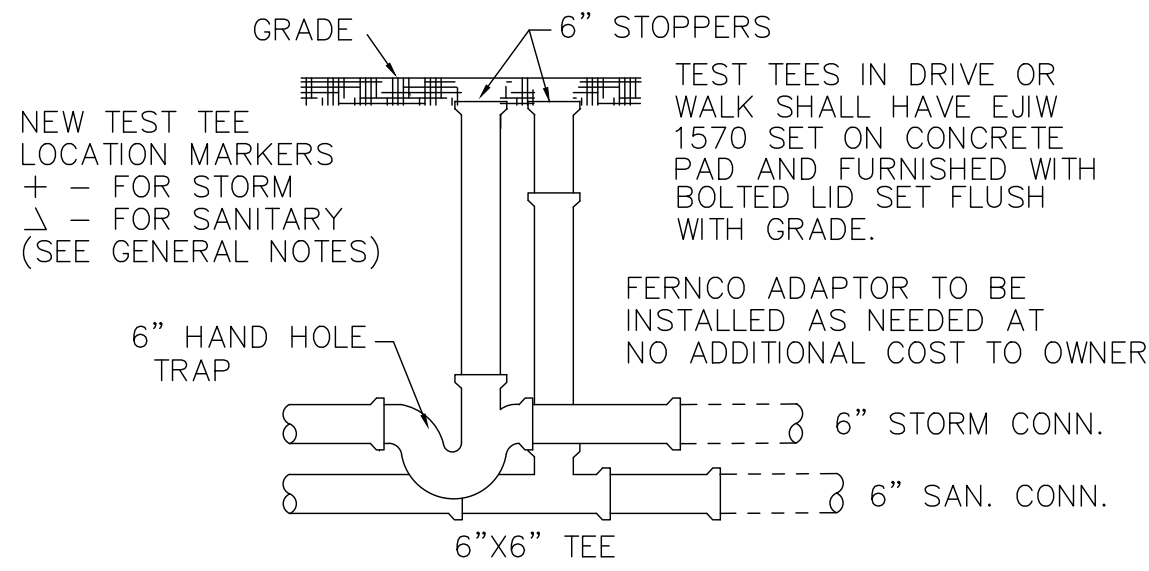
**LAKE COUNTY, OHIO**

ISSUED FOR:	DRAFT
ISSUE DATE:	8/25/2025
SCALE:	AS SHOWN
DESIGNED BY:	PJF
DRAWN BY:	CKW
CHECKED BY:	PJF

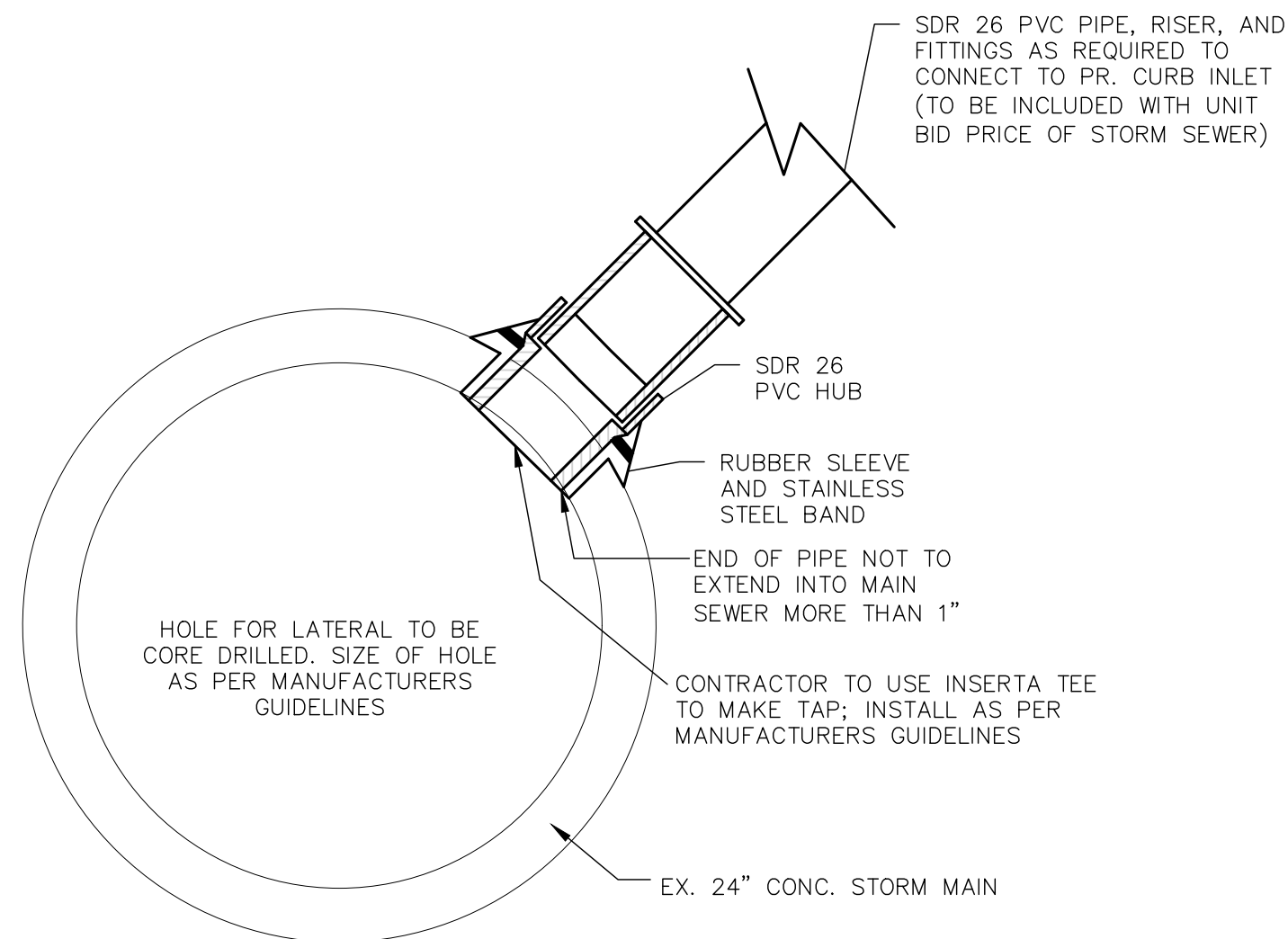
**STANDARD DETAILS 2**

PROJECT NO.	<b>32252</b>
DISCIPLINE	<b>CIVIL</b>
SHEET NAME	<b>DET-4</b>
SHEET	OF
<b>15</b>	<b>18</b>

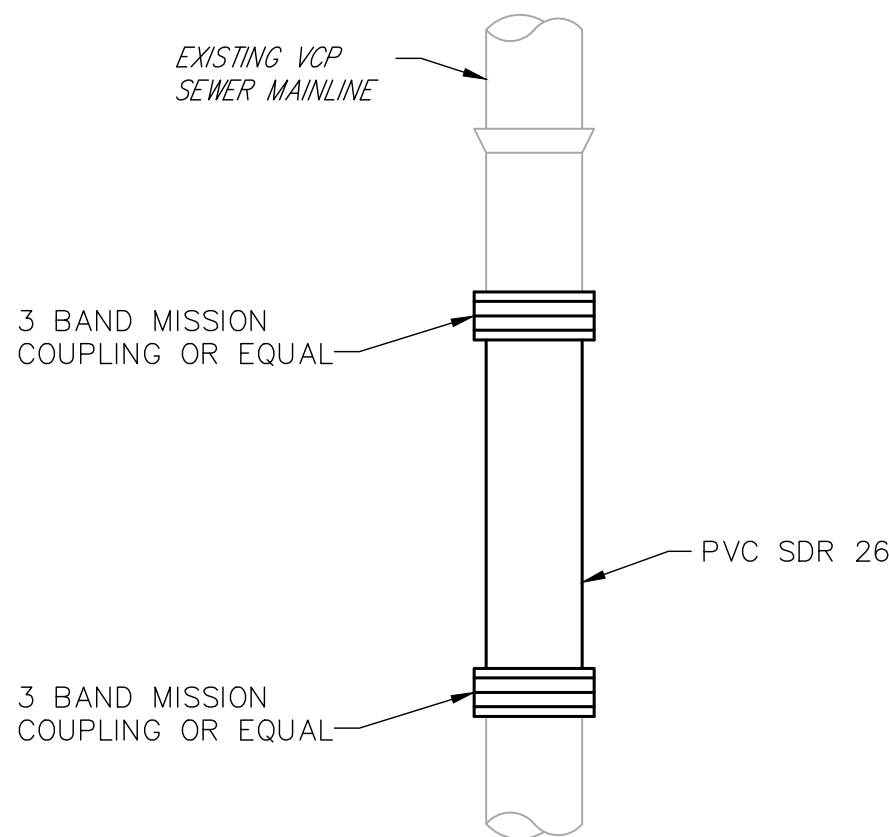




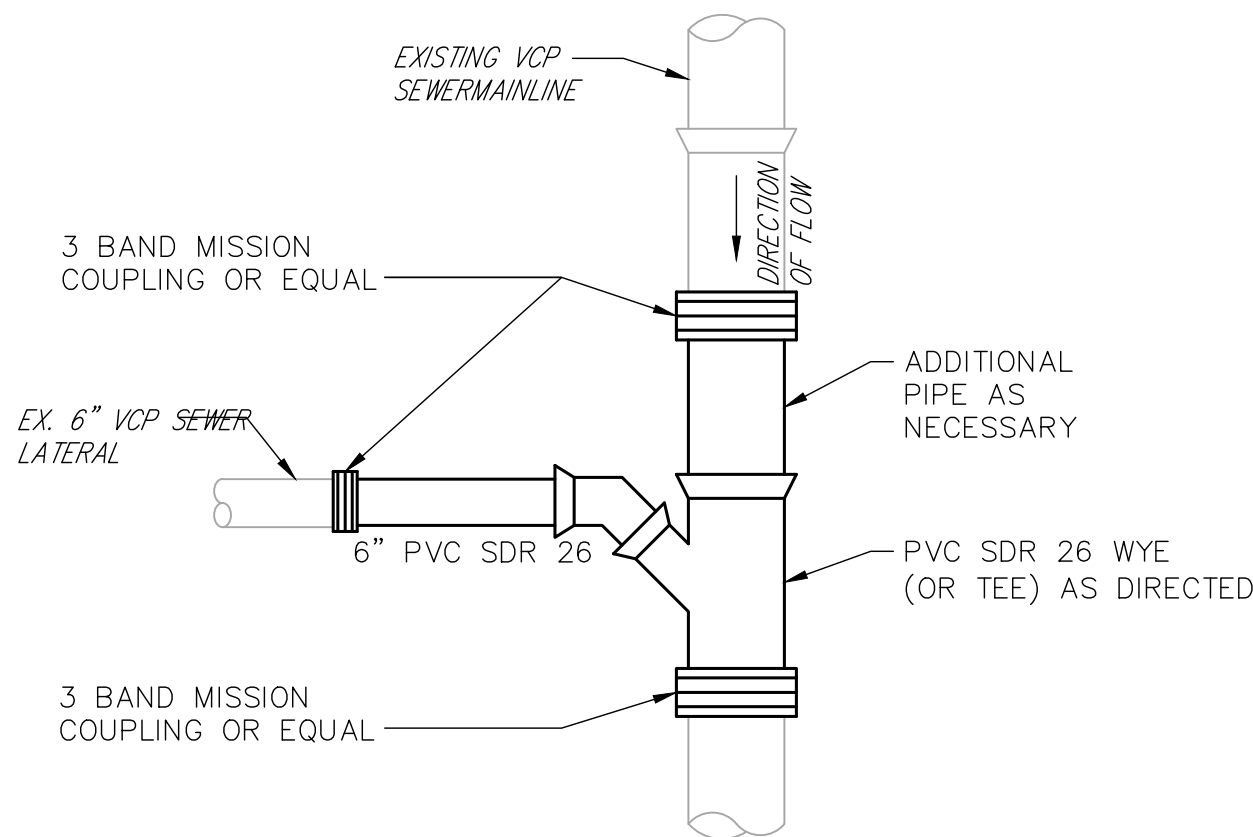
TEST TEE DETAIL



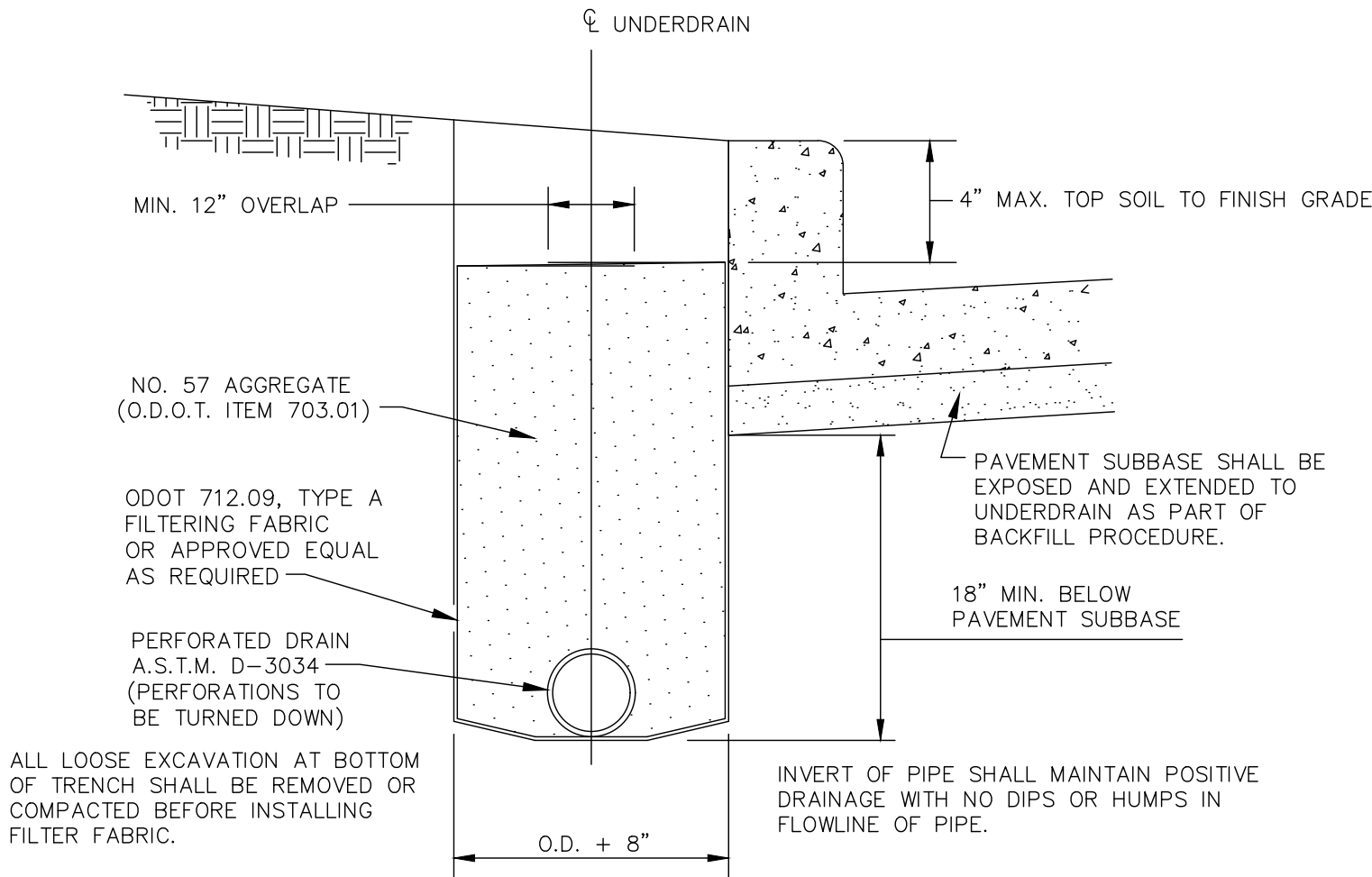
STORM CONNECTION TO EX. MAIN  
(INSERTA TEE)



SEWER POINT REPAIR

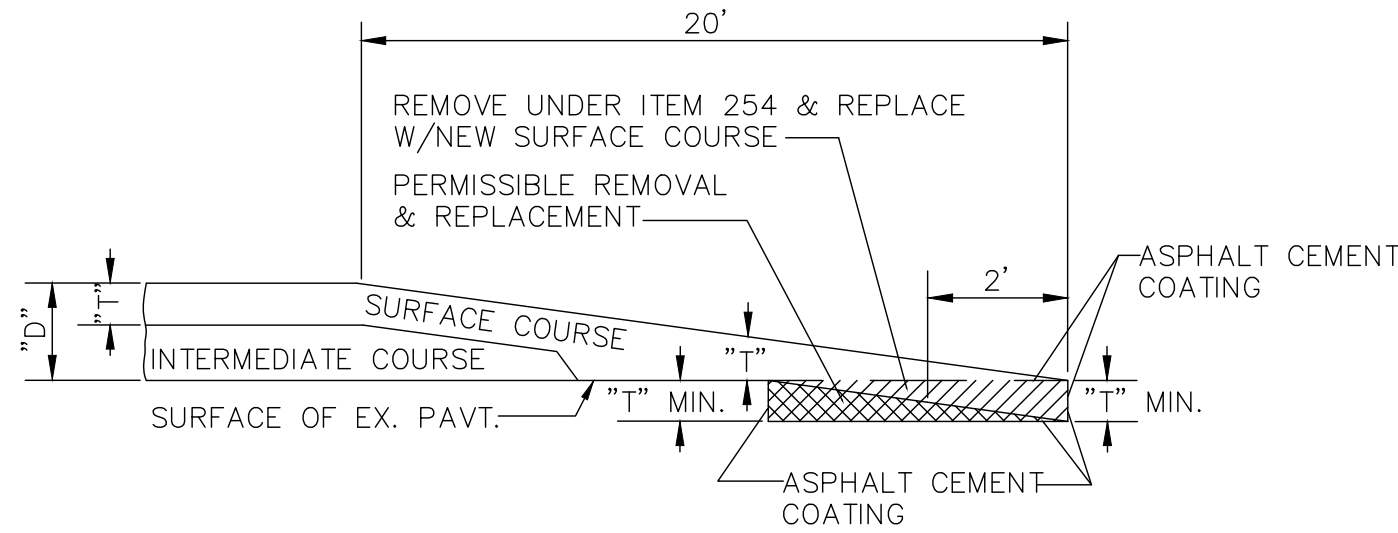


SEWER LATERAL RECONNECTION

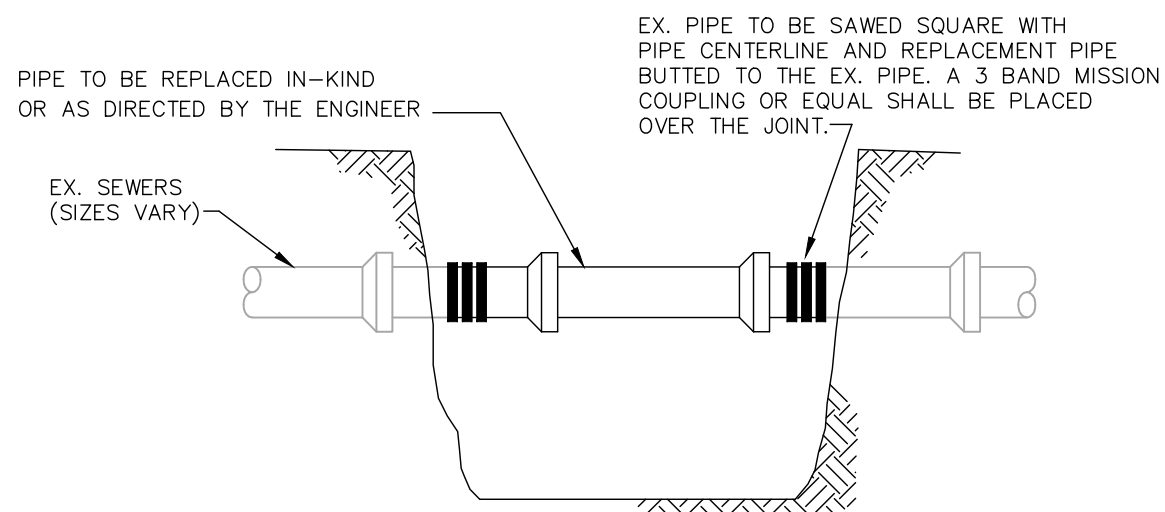


UNDERDRAIN DETAIL

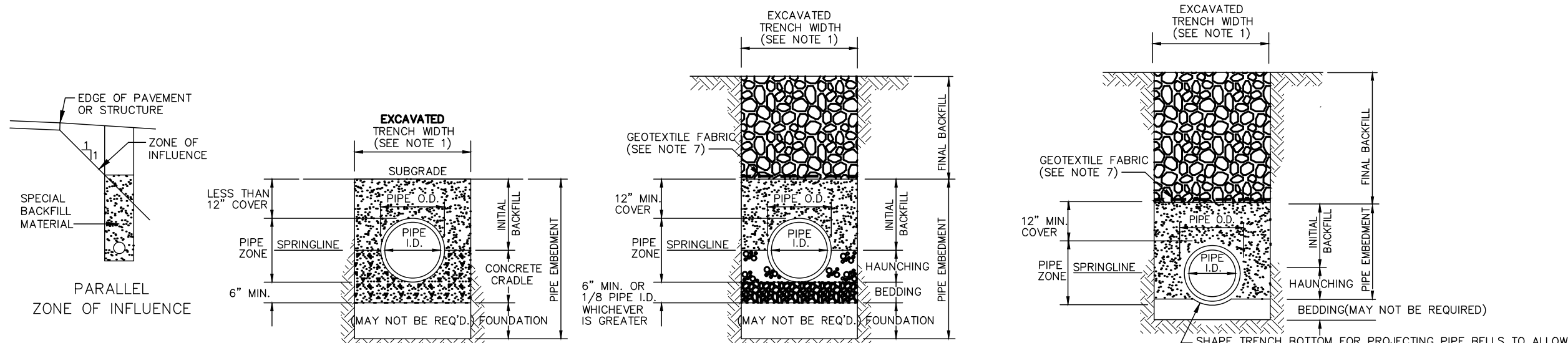
NOTE: ITEM SHALL BE USED AS DIRECTED



BUTT JOINT DETAIL

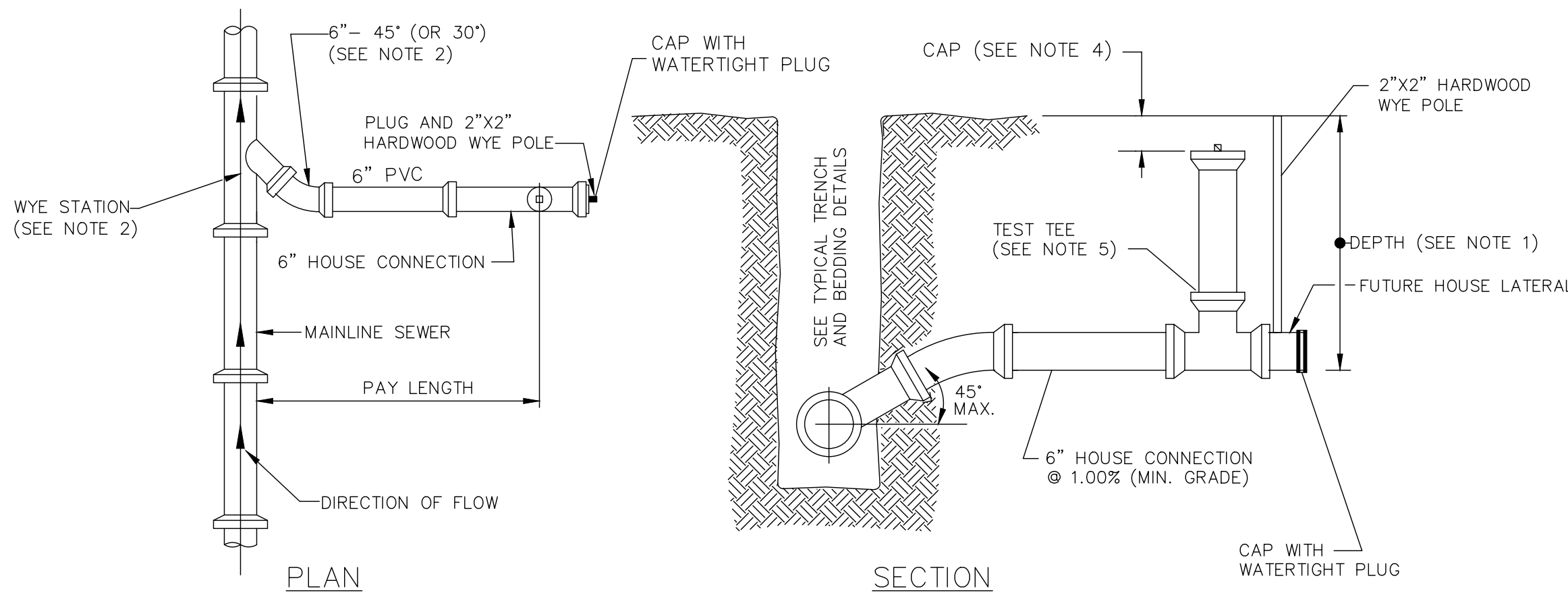


SEWER LATERAL REPAIR DETAIL



- CLASS 'A' PIPE EMBEDMENT
- NOTES:
1. MAXIMUM EXCAVATED TRENCH WIDTH: THE MAXIMUM EXCAVATED TRENCH WIDTH FROM THE BOTTOM OF THE TRENCH TO 12" OVER THE TOP OF THE PIPE (WITHIN PIPE EMBEDMENT) SHALL BE O.D. + 24" FOR ALL PIPES UP TO AND INCLUDING 24" I.D. + 30" FOR PIPE FROM 24" I.D. TO 54" I.D. AND O.D. + 48" FOR PIPES SIZES 60" I.D. AND OVER.
  2. FOUNDATION: WHERE AN UNSTABLE TRENCH BOTTOM CONDITION IS ENCOUNTERED, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH MATERIAL AS DIRECTED BY THE ENGINEER.
  3. PIPE EMBEDMENT: CLASS A: CLASS A PIPE EMBEDMENT SHALL BE USED FOR ALL PIPING UNDER PAVEMENT OR STRUCTURES WITH LESS THAN 12 INCHES OF PIPE COVER TO THE SUBGRADE. THE CONCRETE CRADLE SHALL BE IN ACCORDANCE WITH ODOT ITEM 499, CLASS "C". THE INITIAL BACKFILL SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.
  - CLASS B: CLASS B PIPE EMBEDMENT SHALL BE USED FOR ALL PIPING UNLESS OTHERWISE NOTED ON THE PLANS OR AUTHORIZED BY THE ENGINEER. THE BEDDING AND HAUNCHING SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT. IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE AASHTO NO. 57 OR NO. 67 STONE GRANULAR PIPE EMBEDMENT. IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE, THE INITIAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER FOR ONLY REINFORCED CONCRETE PIPE AND DUCTILE IRON PIPE. THE INITIAL BACKFILL FOR ALL OTHER PIPES SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.
  - CLASS C: CLASS C PIPE EMBEDMENT SHALL ONLY BE USED FOR DUCTILE IRON WATER MAIN, DUCTILE IRON FORCE MAINS OR AS AUTHORIZED BY THE ENGINEER. THE PIPE EMBEDMENT SHALL BE AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE. THE PIPE EMBEDMENT SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE WHERE ROCK OR SHALE IS ENCOUNTERED, A MINIMUM 6-INCHES OF AASHTO NO. 57 OR NO. 67 GRANULAR PIPE BEDDING OR SAND BEDDING SHALL BE PLACED AS DIRECTED BY THE ENGINEER.
  4. FINAL BACKFILL: IN ALL AREAS UNDER PAVEMENT, STRUCTURES OR WITHIN THE ZONE OF INFLUENCE THE FINAL BACKFILL SHALL BE SPECIAL BACKFILL MATERIAL. IN ALL AREAS OUTSIDE OF PAVEMENT, STRUCTURES OR THE ZONE OF INFLUENCE, THE FINAL BACKFILL SHALL BE SUITABLE ON-SITE MATERIAL APPROVED BY THE ENGINEER.
  5. SPECIFICATIONS: ALL TRENCHING, PIPE EMBEDMENT AND BACKFILL MATERIALS SHALL BE IN ACCORDANCE WITH SPECIFICATION 02300CT - EARTHWORK.
  6. CLAY TRENCH DAMS: CLAY TRENCH DAMS SHALL BE REQUIRED AS SHOWN ON PLANS OR WHEN AND WHERE NECESSARY AS DIRECTED BY THE ENGINEER.
  7. GEOTEXTILE FABRIC: INSTALL A GEOTEXTILE FABRIC IN ACCORDANCE WITH ODOT 712.09, TYPE A, AFTER ALL INITIAL BACKFILL CONSISTING OF AASHTO NO. 57 OR NO. 67 GRANULAR PIPE EMBEDMENT.
  8. DETECTOR TAPE: IF REQUIRED IN THE SPECIFICATIONS, INSTALL DETECTABLE WARNING TAPE ABOVE UTILITIES, 12" BELOW FINISHED GRADE, EXCEPT 6 INCHES BELOW SUBGRADE UNDER PAVEMENT AND SLABS.

TRENCHING, EMBEDMENT AND BACKFILL DETAIL



- PLAN
- SECTION
- NOTES:
1. SEWER LATERALS ARE TO BE INSTALLED AT A MINIMUM SLOPE OF 1%. ALL EXCEPTIONS AND DEPTH OF LATERALS SHALL BE APPROVED BY THE CITY PRIOR TO INSTALLATION.
  2. WYES ONLY ARE TO BE PROVIDED FOR ALL SANITARY CONNECTIONS TO THE MAINLINE SEWERS. USE 45° OR 30° ELL AS REQUIRED TO REDIRECT LATERALS PERPENDICULAR TO MAINLINE SEWER.
  3. PROVIDE THREADED, WATERTIGHT, PLASTIC CAP WITH 3/4" STEEL BOLT EMBEDDED IN THE CAP. TOP OF CAP TO BE 6" BELOW FINISHED GROUND GRADE. ALL TEST TEES INSTALLED IN ASPHALT, STONE, OR CONCRETE SHALL BE INSTALLED FLUSH WITH THE EXISTING GRADE.
  4. TEST TEES ARE TO BE PROVIDED FOR ALL NEW SANITARY LATERALS CONNECTED DIRECTLY TO SANITARY SEWER MAIN.

SEWER LATERAL DETAIL



verdantas

NO	REVISION	DATE

CITY OF WICKLIFFE

PARKWOOD DRIVE & KERRY LANE WATERMAIN AND PAVEMENT IMPROVEMENTS

LAKE COUNTY, OHIO

ISSUED FOR: DRAFT

ISSUE DATE: 8/25/2025

SCALE: AS SHOWN

DESIGNED BY: PJF

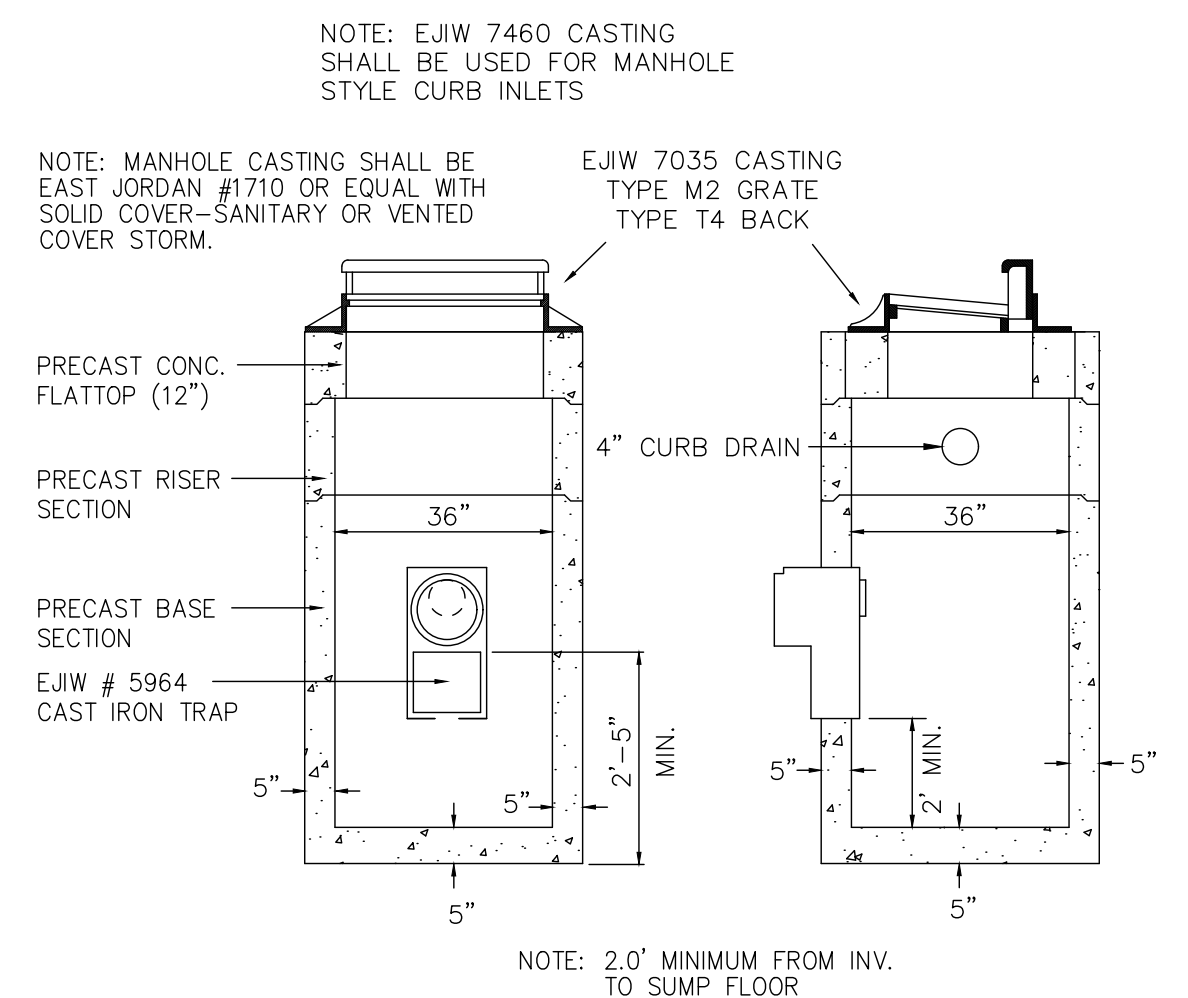
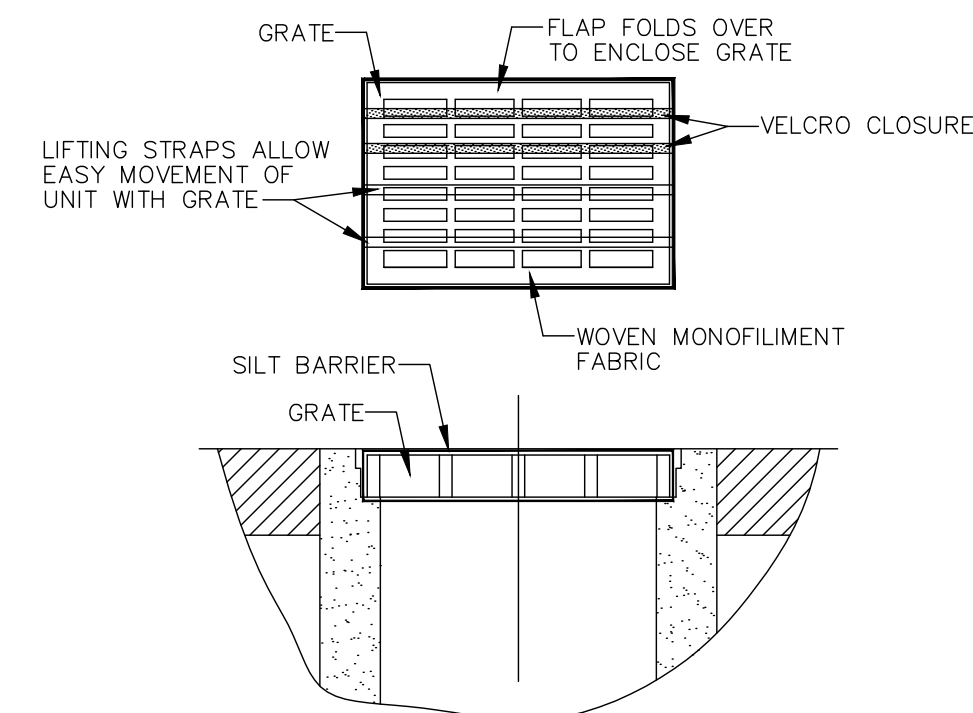
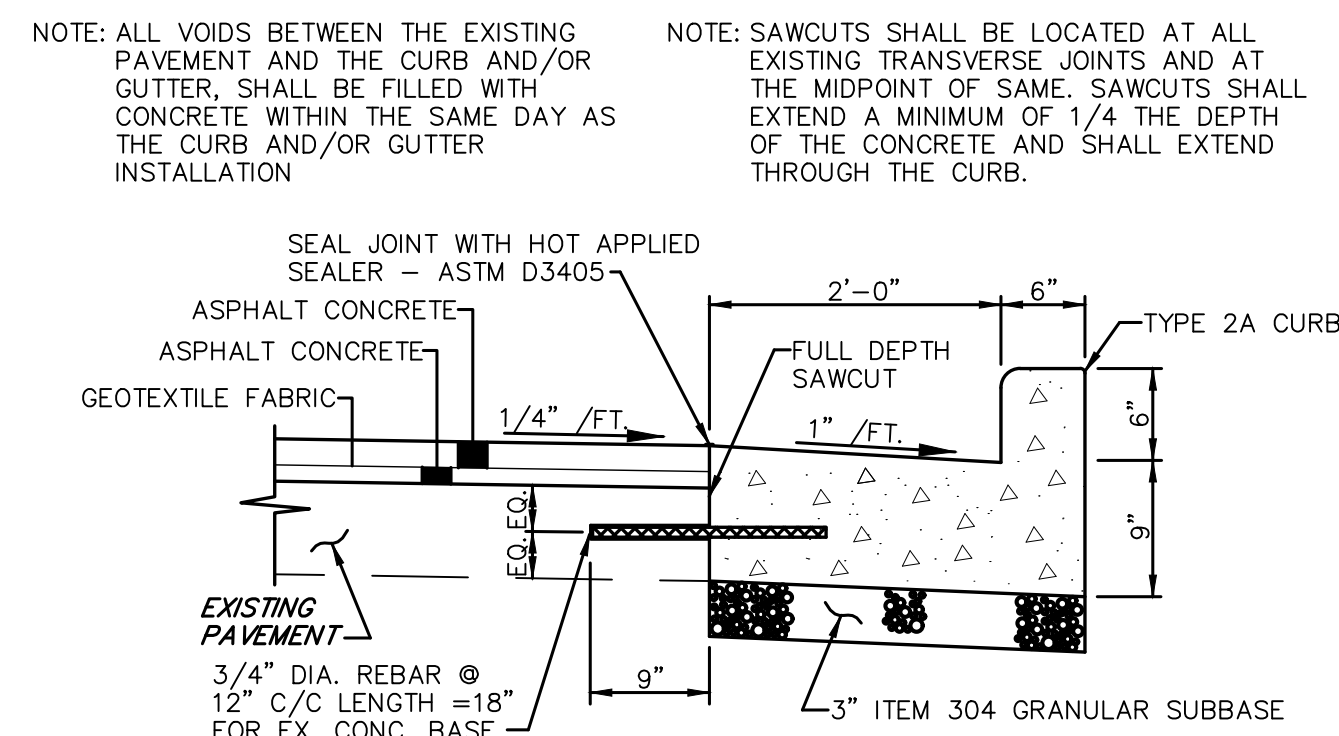
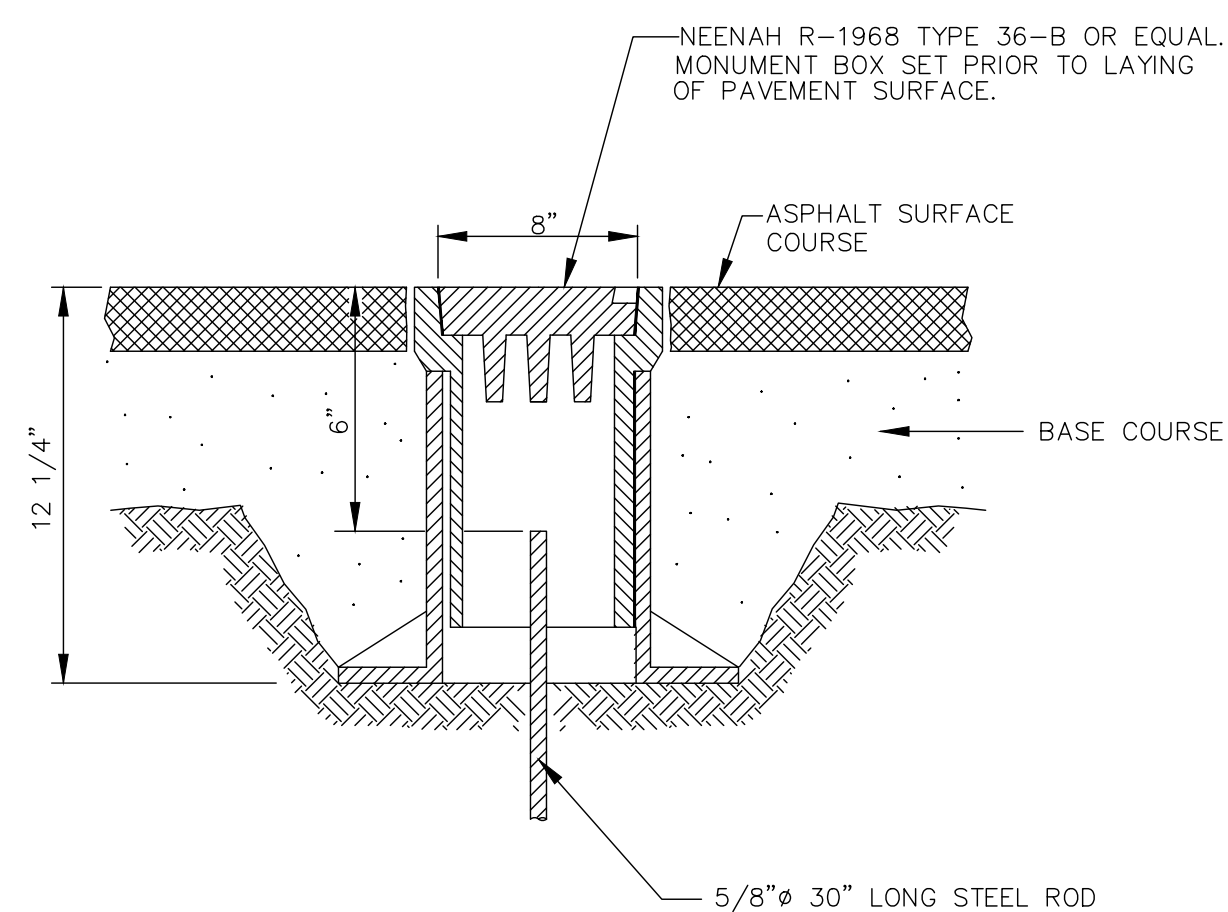
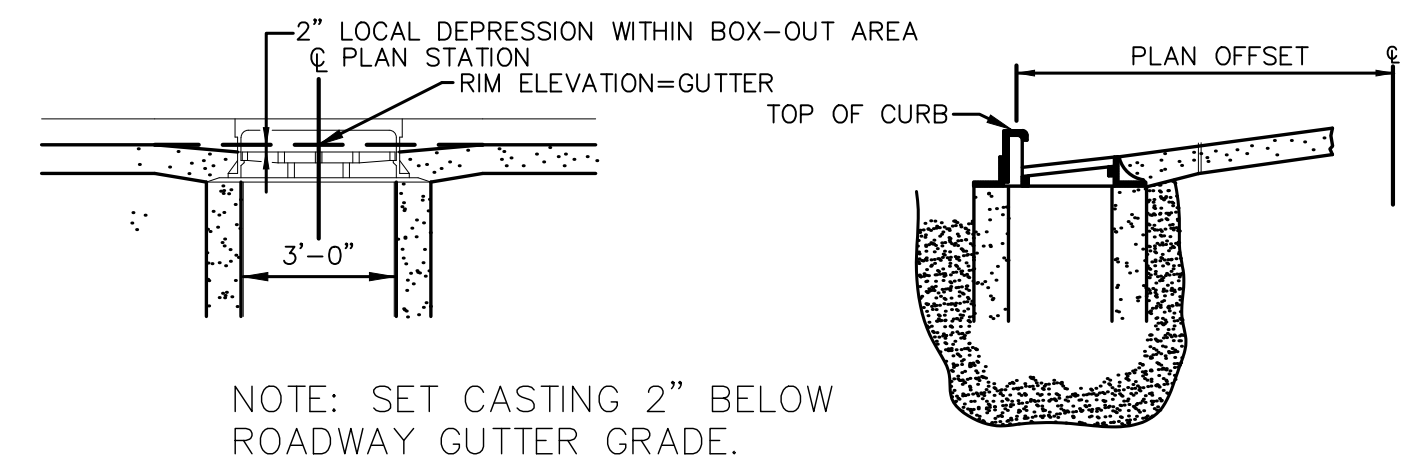
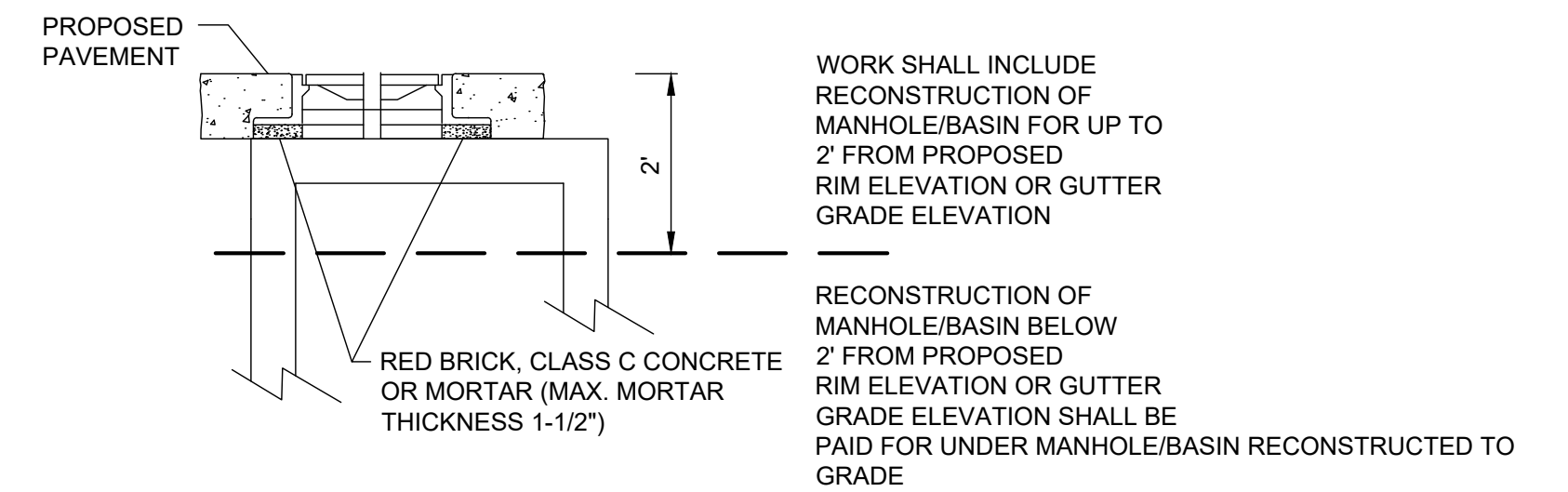
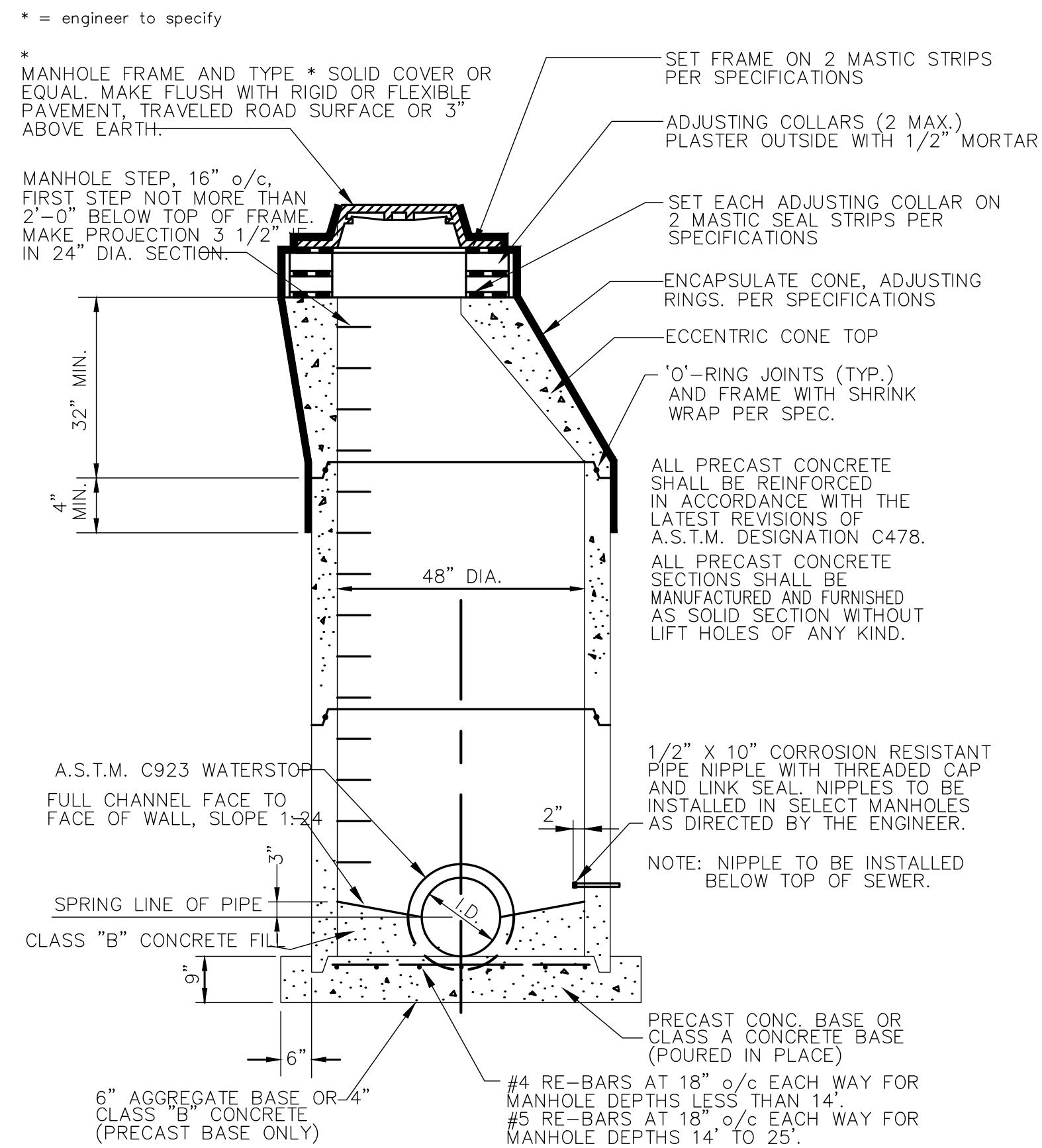
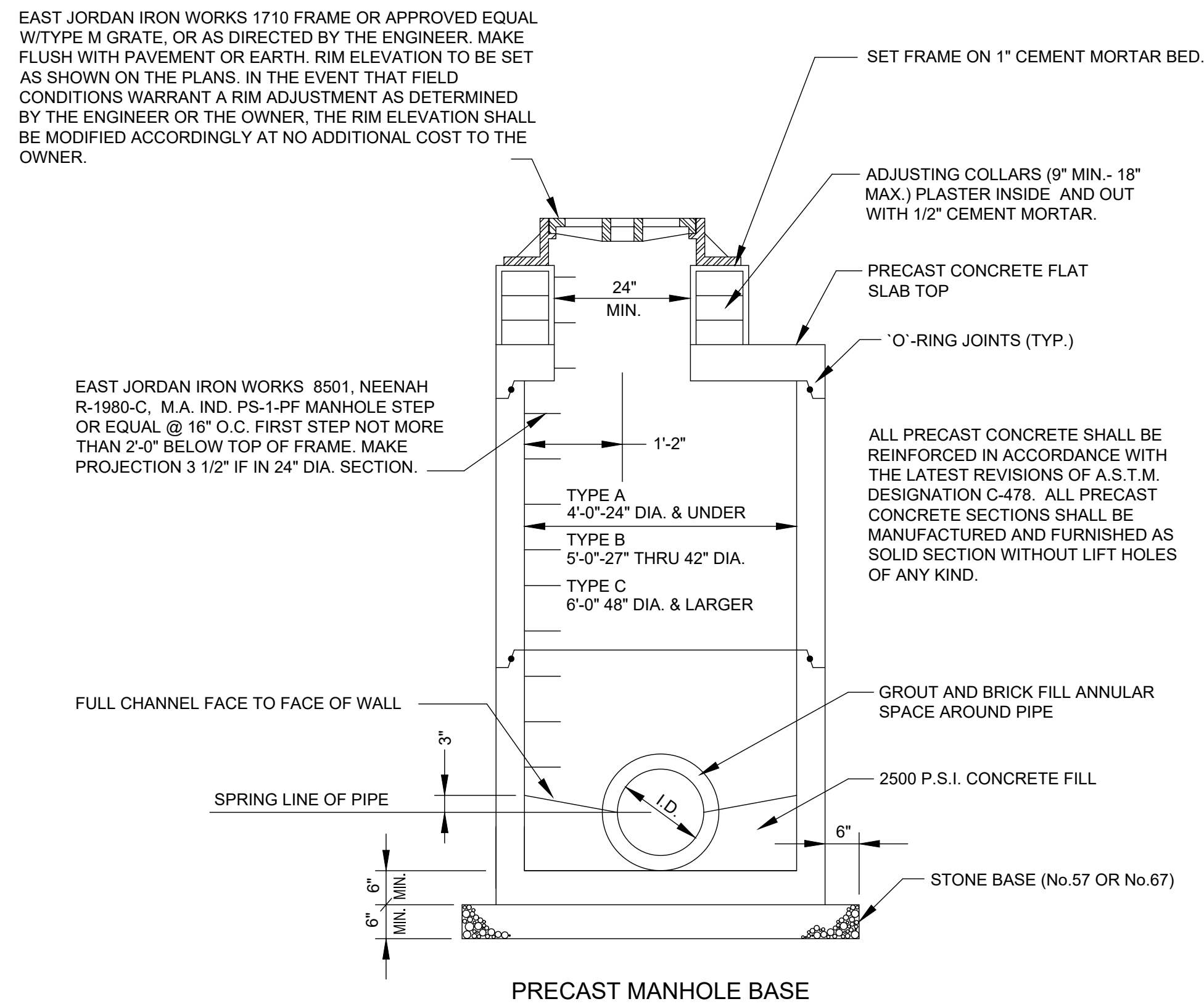
DRAWN BY: CKW

CHECKED BY: PJF

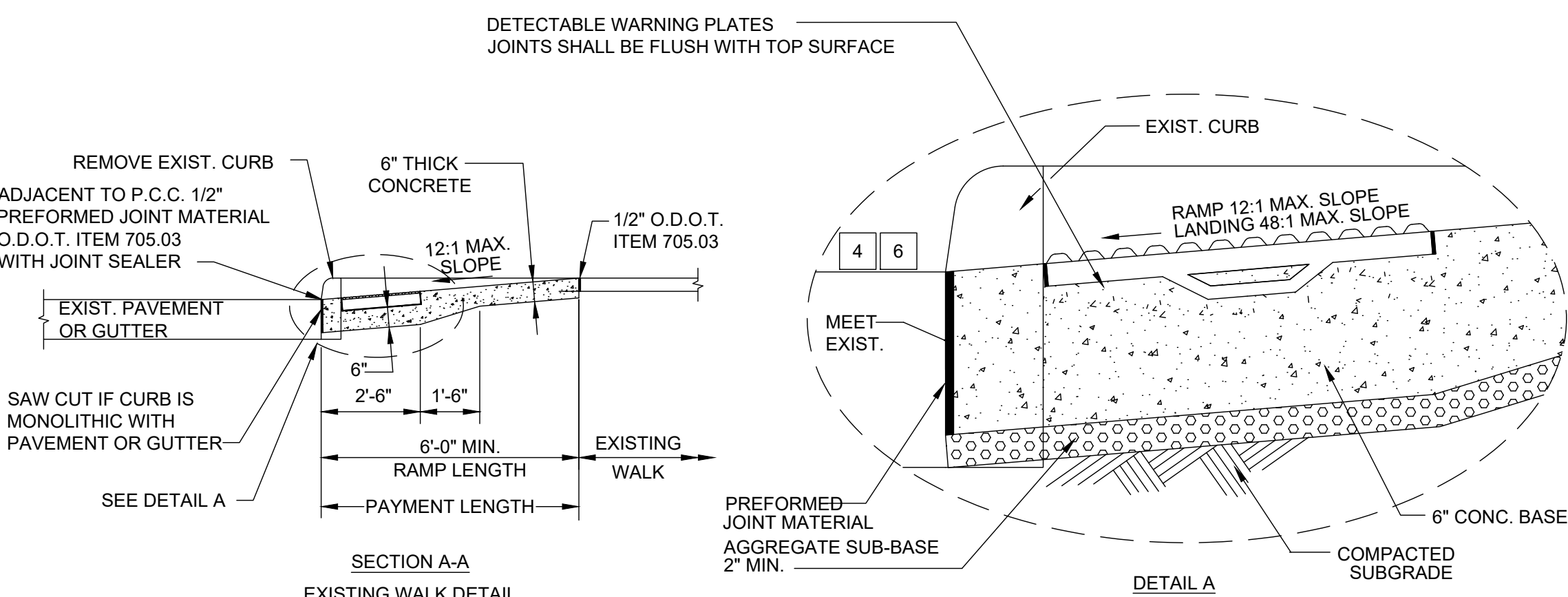
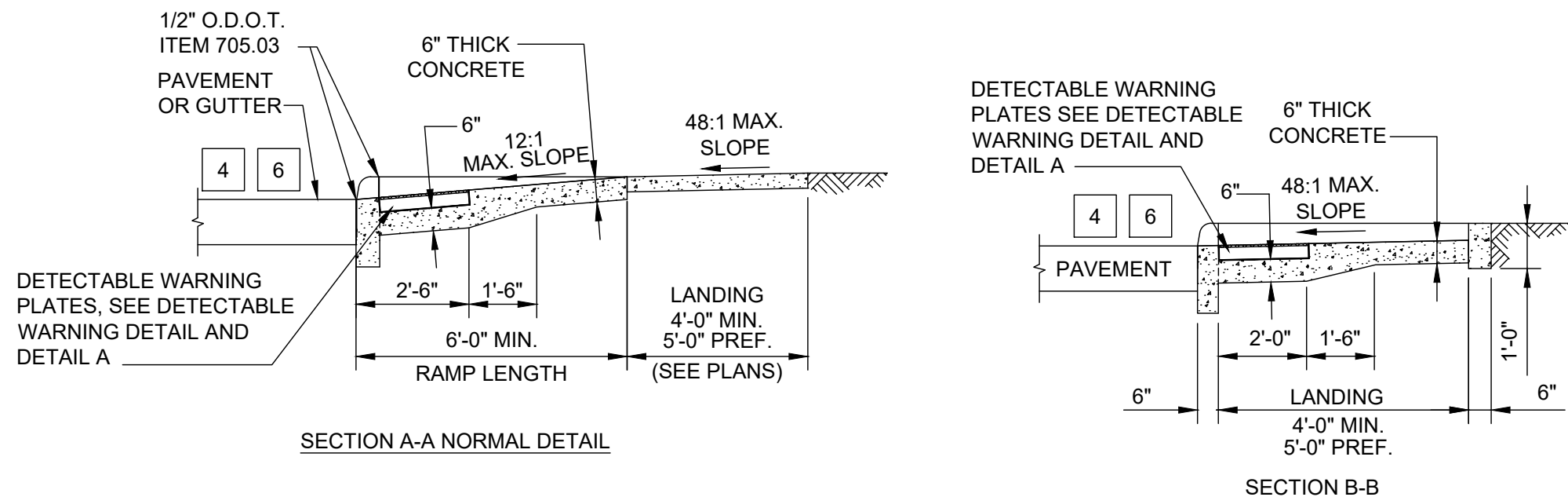
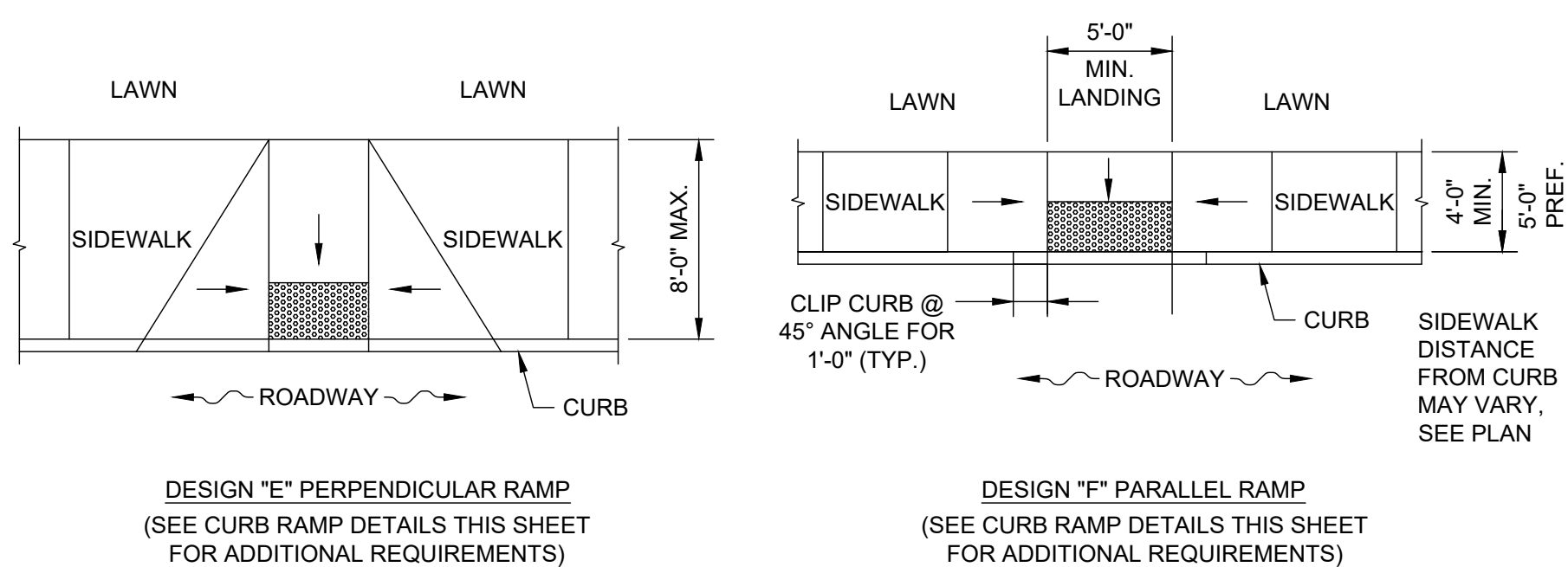
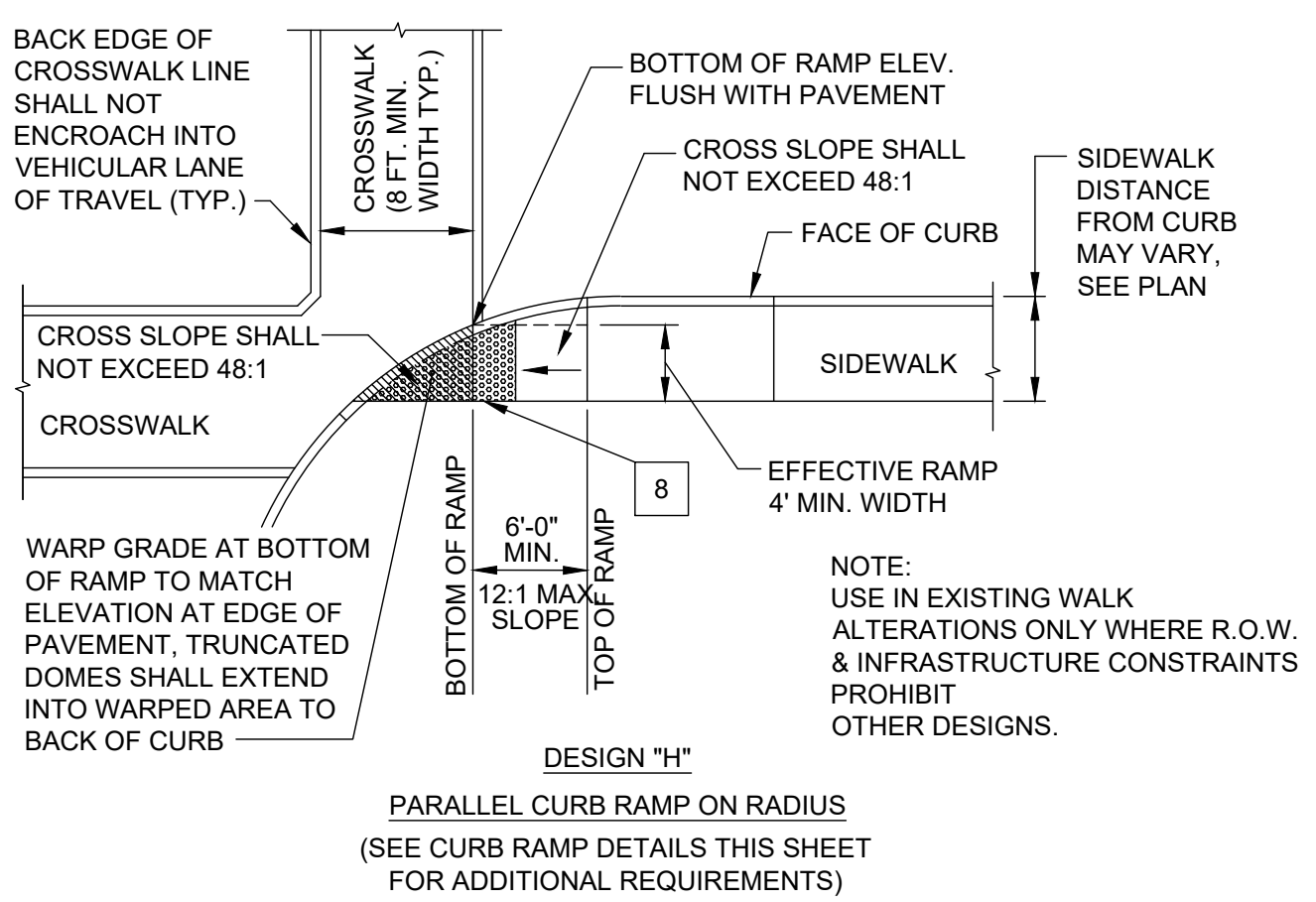
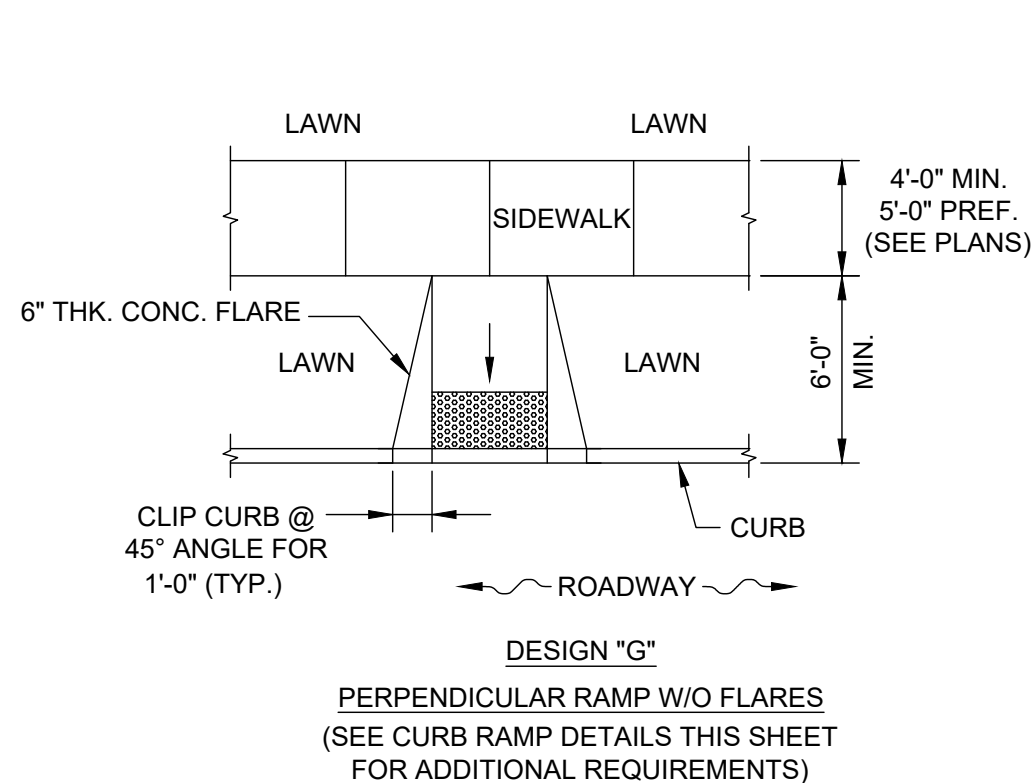
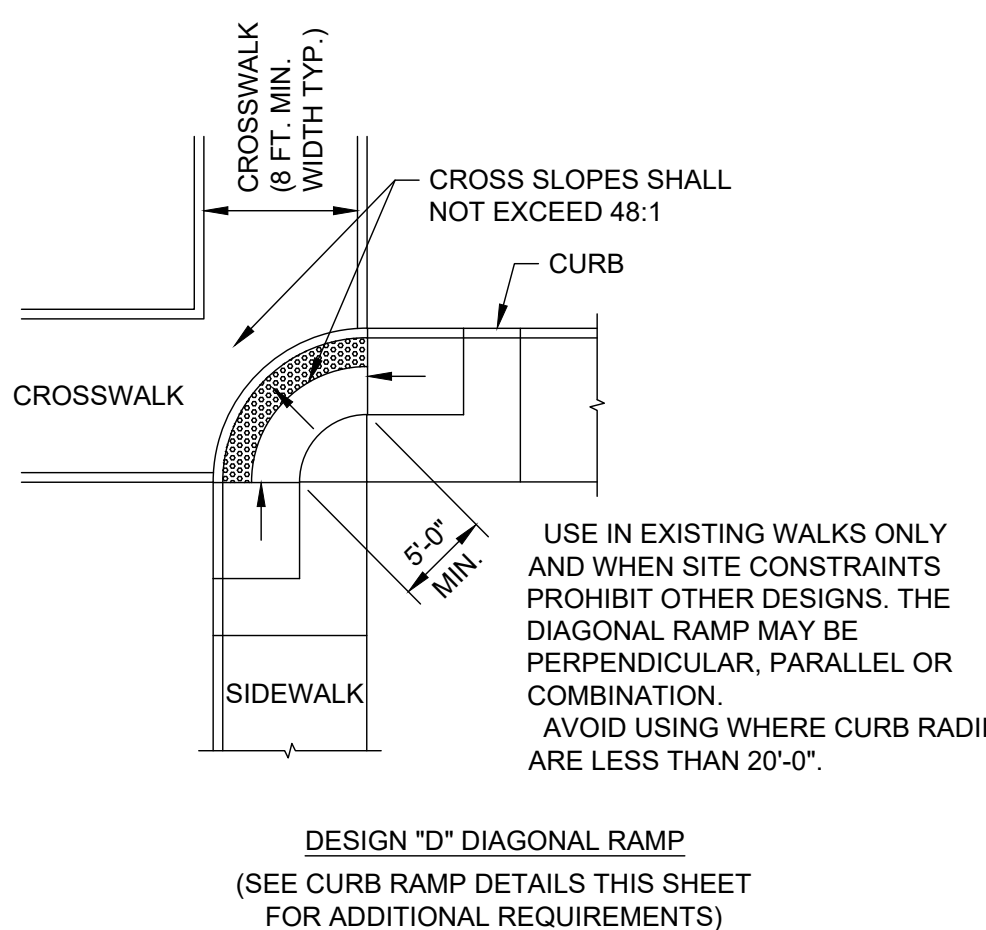
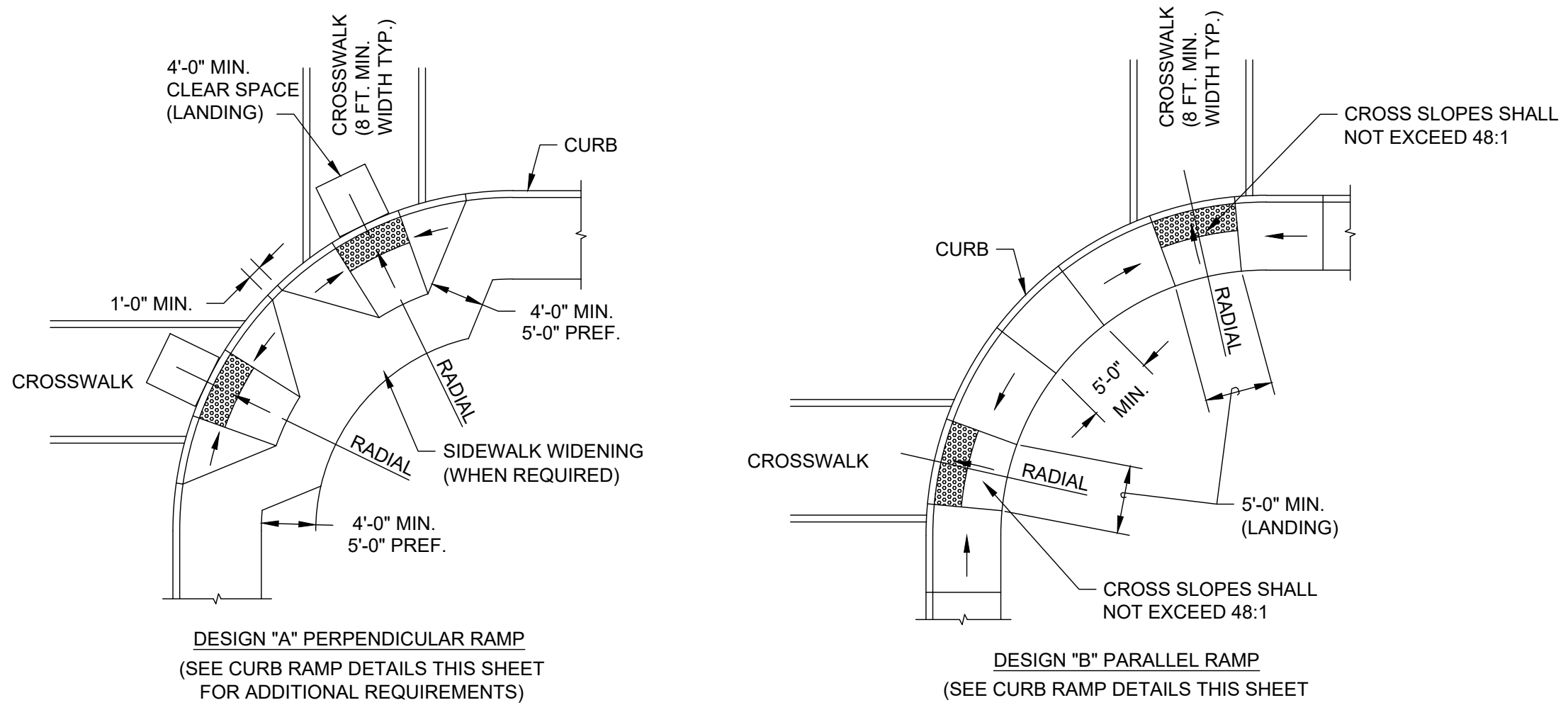
STANDARD DETAILS 3

PROJECT NO.	32252
DISCIPLINE	CIVIL
SHEET NAME	DET-5
SHEET	OF
16	18









- DETAIL NOTES**
- MAY BE REDUCED TO 3'-4" IN EXISTING SIDEWALKS TO BETTER FIT THE WALK CONFIGURATION OR WHERE SITE CONDITIONS ARE RESTRICTED BY NARROW WALKS, POLE FOUNDATIONS, DRAINAGE INLETS, ETC. THE WIDTH MAY BE TAPERED.
  - IF FLARED SIDES ARE USED IN AREAS OF CROSS TRAVEL, THE MINIMUM SLOPE SHALL BE 10:1 WITH A LANDING AND 12:1 WITHOUT A DEFINED LANDING.
  - THE SLOPE OF THE RAMP TOWARD THE CURB IS REQUIRED TO BE 12:1 [0.0833] OR LESS, RELATIVE TO THE HORIZONTAL, UNLESS APPROVED IN WRITING BY THE ENGINEER/ARCHITECT.
  - THE MINIMUM LENGTH OF A PERPENDICULAR RAMP IS 6' FROM THE BACK OF A 6" CURB AND MAY BE INCREASED WHERE FEASIBLE TO OBTAIN A FLATTER RAMP SLOPE OR TO BETTER BLEND WITH THE WALK CONFIGURATION
  - THE GRADE BREAK BETWEEN THE COUNTER SLOPES OF GUTTER AND/OR ROAD SURFACES, WITHIN 24 INCHES OF THE CURB RAMP AND THE RUNNING GRADE OF THE CURB RAMP, SHALL NOT EXCEED THE ALGEBRAIC DIFFERENCE OF 11 PERCENT. IF TWO OR MORE PLANE CHANGES ARE PRESENT, THEY SHALL BE SEPARATED BY 24 INCHES.
  - DIMENSIONS DERIVED FROM EQUATIONS ARE NOMINAL. CONSTRUCT RAMPS TO MEET REQUIRED SLOPES AND EXISTING CONDITIONS.
  - GRADES FOR LANDING SHALL PROMOTE POSITIVE DRAINAGE, WITHIN MAXIMUM ALLOWABLE SLOPE. NO PONDING OF WATER WILL BE ACCEPTABLE.
  - DETECTABLE WARNING PLATES SHALL CONSIST OF A SURFACE OF TRUNCATED DOMES ALIGNED ON A SQUARE GRID, IN THE PREDOMINANT DIRECTION OF TRAVEL, EXTENDING A DISTANCE OF 24" FROM THE BACK OF CURB AND SPANNING THE ENTIRE WIDTH OF THE RAMP OPENING.

TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9", A TOP DIAMETER OF 0.56", A HEIGHT OF 0.2" AND CENTER TO CENTER SPACING OF 2.35".

PLATES SHALL BE LAID SUCH THAT JOINTS ARE LEVEL WITH ADJOINING JOINTS SO AS TO PROVIDE A SMOOTH TRANSITION FROM PAVEMENT TO PAVEMENT AND PAVEMENT TO CONCRETE SURFACE. THE SURFACE OF ANY TWO ADJACENT UNITS SHOULD NOT DIFFER BY MORE THAN 1/8" IN HEIGHT. PLATES SHALL BE BOLTED TOGETHER IN REQUIRED LENGTH. FACE OF ALL PLATES SHALL BE CLEAN OF CEMENT AND PROTECTED SO AS TO AVOID DAMAGE DURING CONSTRUCTION.

DETECTABLE WARNING SURFACES SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.

WHERE PLATES ABUT LAWN, INSTALL RIGID PVC OR GALVANIZED STEEL EDGE RESTRAINT WITH MINIMUM 1 3/4" VERTICAL FACE, 1 1/4" TOE, AND 3 1/4" HEEL USING 10" X 3/8" LONG SPIKES AT 12" C-C.

DETECTABLE WARNING PLATES SHALL BE ADVANTAGE TACTILE SYSTEMS STAINLESS STEEL COATED 2'X4' PLATE AT PERPENDICULAR CURB RAMPS AND CURB RAMPS ON THE RADIUS. 20" RADIUS PLATES SHALL BE INSTALLED AT DIAGONAL CURB RAMP. ALL SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

**SURFACE TEXTURE:** TEXTURE SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE RAMP SLOPES AND SHALL BE ROUGHER THAN ADJACENT WALK. (DOES NOT APPLY TO TRUNCATED DOMES)

**JOINTS:** JOINTS SHALL BE PROVIDED IN THE CURB RAMP AS EXTENSIONS OF WALK JOINTS. A 1/2" O.D.O.T. ITEM 705.03 PREFORMED JOINT MATERIAL SHALL BE PROVIDED AROUND THE EDGE OF RAMPS BUILT IN EXISTING CONCRETE WALK. LINES SHOWN ON THIS DRAWING INDICATE THE RAMP EDGE AND SLOPE CHANGES AND ARE NOT NECESSARILY JOINT LINES.

SEE NOTE 3

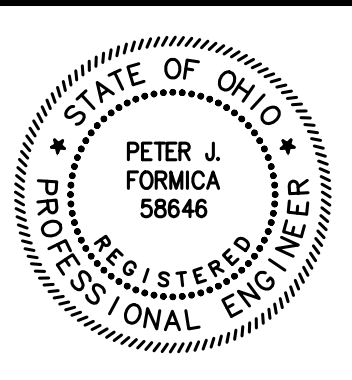
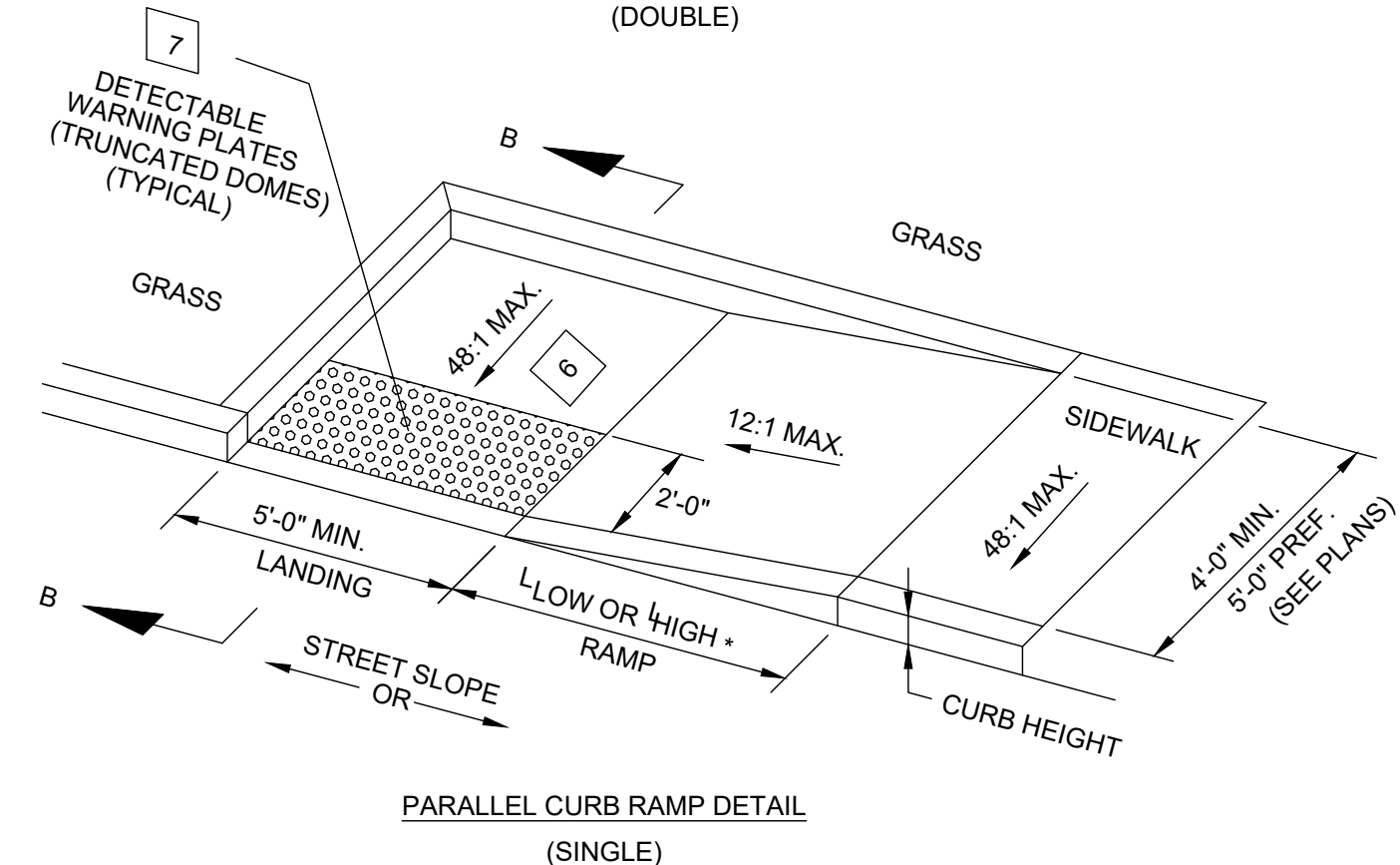
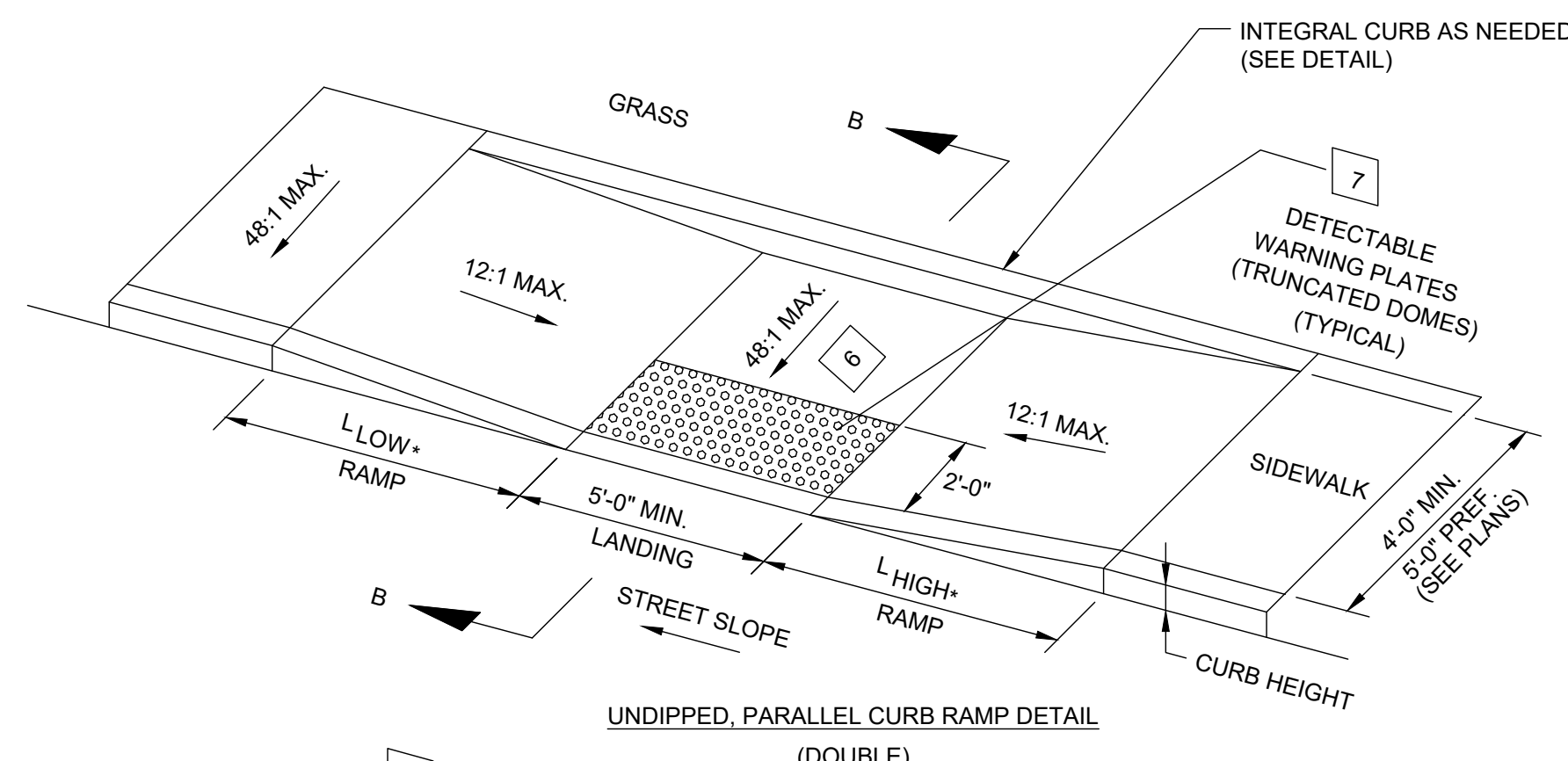
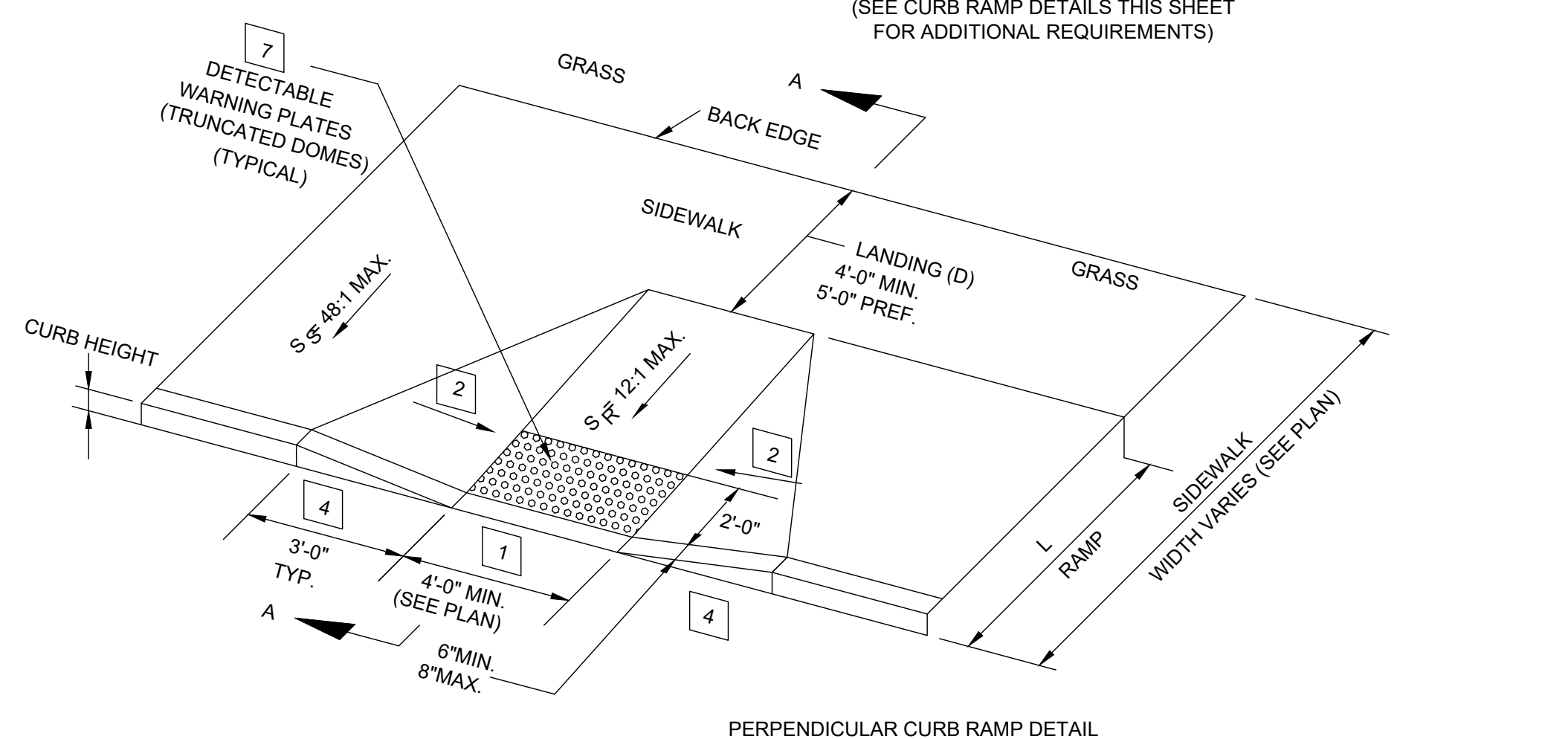
STREET SLOPE	RAMP LENGTH @ 1 INCH PER FOOT [0.0833]	
	L LOW SIDE *	L HIGH SIDE *
0.01	5'-5"	6'-10"
0.02	4'-10"	7'-11"
0.03	4'-5"	9'-5"
0.04	4'-1"	11'-8"
0.05	3'-9"	15'-2"

\* - REFERENCE POINT FOR MEASURE IS FACE OF 6" HIGH CURB

$$L = \frac{\text{CURB HT.}}{\text{R}} = \text{S S}$$

$$L_{\text{HIGH}} = \frac{\text{CURB HEIGHT}}{0.0833 - \text{STREET SLOPE}}$$

$$L_{\text{LOW}} = \frac{\text{CURB HT.}}{0.0833 + \text{STREET SLOPE}}$$



NO	REVISION	DATE

**CITY OF WICKLIFFE**

**PARKWOOD DRIVE & KERRY LANE WATERMAIN AND PAVEMENT IMPROVEMENTS**

**LAKE COUNTY, OHIO**

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DESIGNED BY:	PJF
DRAWN BY:	CKW
CHECKED BY:	PJF

**STANDARD DETAILS 5**

PROJECT NO.	32252
DISCIPLINE	CIVIL
SHEET NAME	DET-7
SHEET	OF
18	18